

# Multimedia Teaching & Learning System

## Making teaching videos

### Advantages

- Need to prepare one time
- Consistent teaching & lecturing
- Easy to convertible
- Promote students' self directed learning
- Teacher's role as facilitator

### Disadvantage

- Time consuming
- Needs technical resources

**Sample Video—**

# **Renewable Energy Resources Analysis**

**Lectured by Dr Kyaw Naing**

- **Bio energy**
- **Geothermal Energy**
- **Tidal Energy**
- **Exploring new energy resources for Myanmar**
- **Long coast line--- Potential of tidal energy**



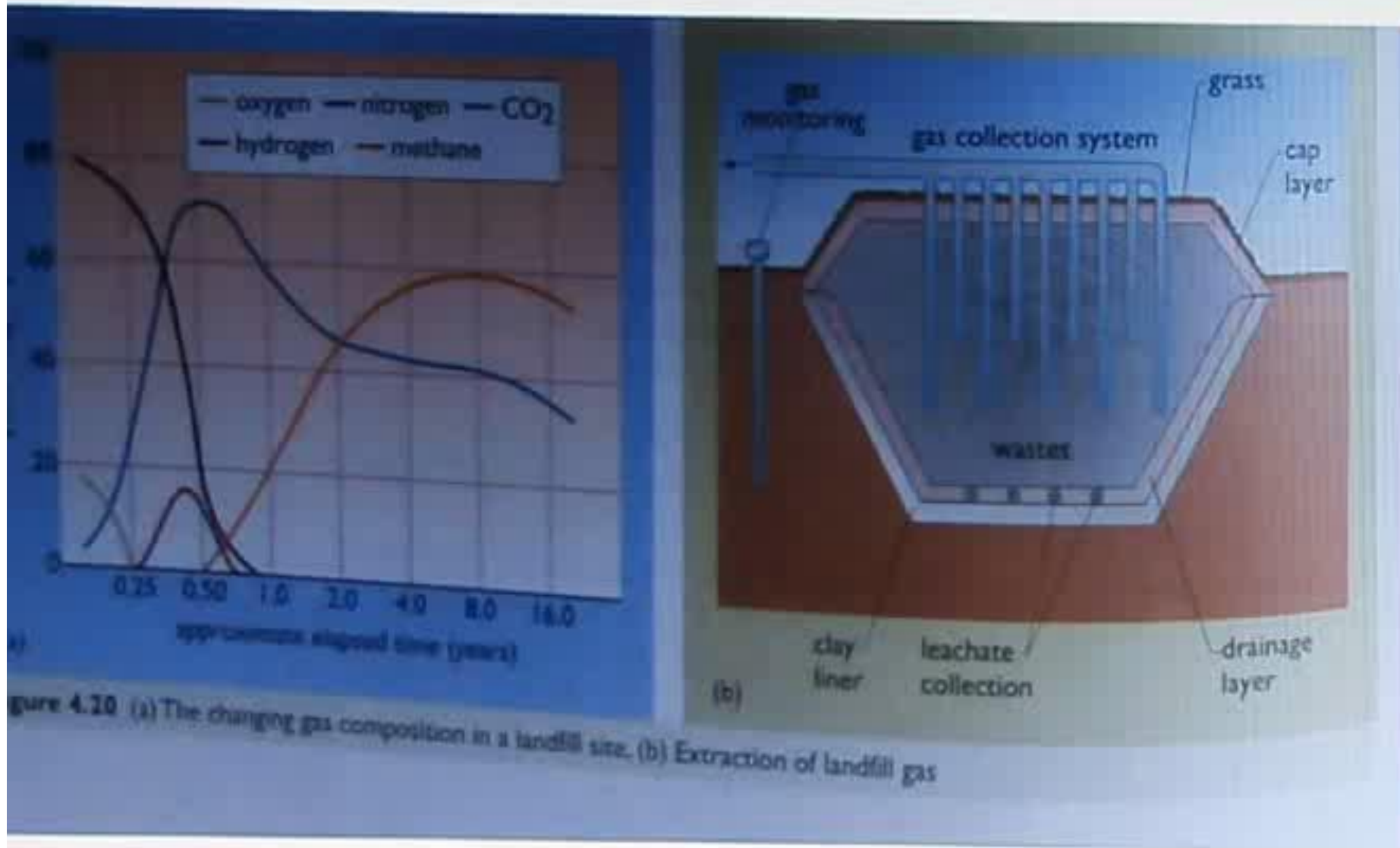


Figure 4.20 (a) The changing gas composition in a landfill site. (b) Extraction of landfill gas

- POWER POINT COMPATIBLE VIDEO FORMAT- AVI
- AVI is large file size. To upload, it needs to convert to MP4
- Utilize video conversion software to convert AVI to MP4
- You can download the MP4 files from internet, convert it to AVI & insert it into your lesson power point slides.
- Video camera/ mobile phone/ digital camera video format-- AVI



# AUDIO

- Transferring audio from digital note taker
- Auditing

## Equipment

- Digital Note Taker
- Audio Auditing Software



SONY

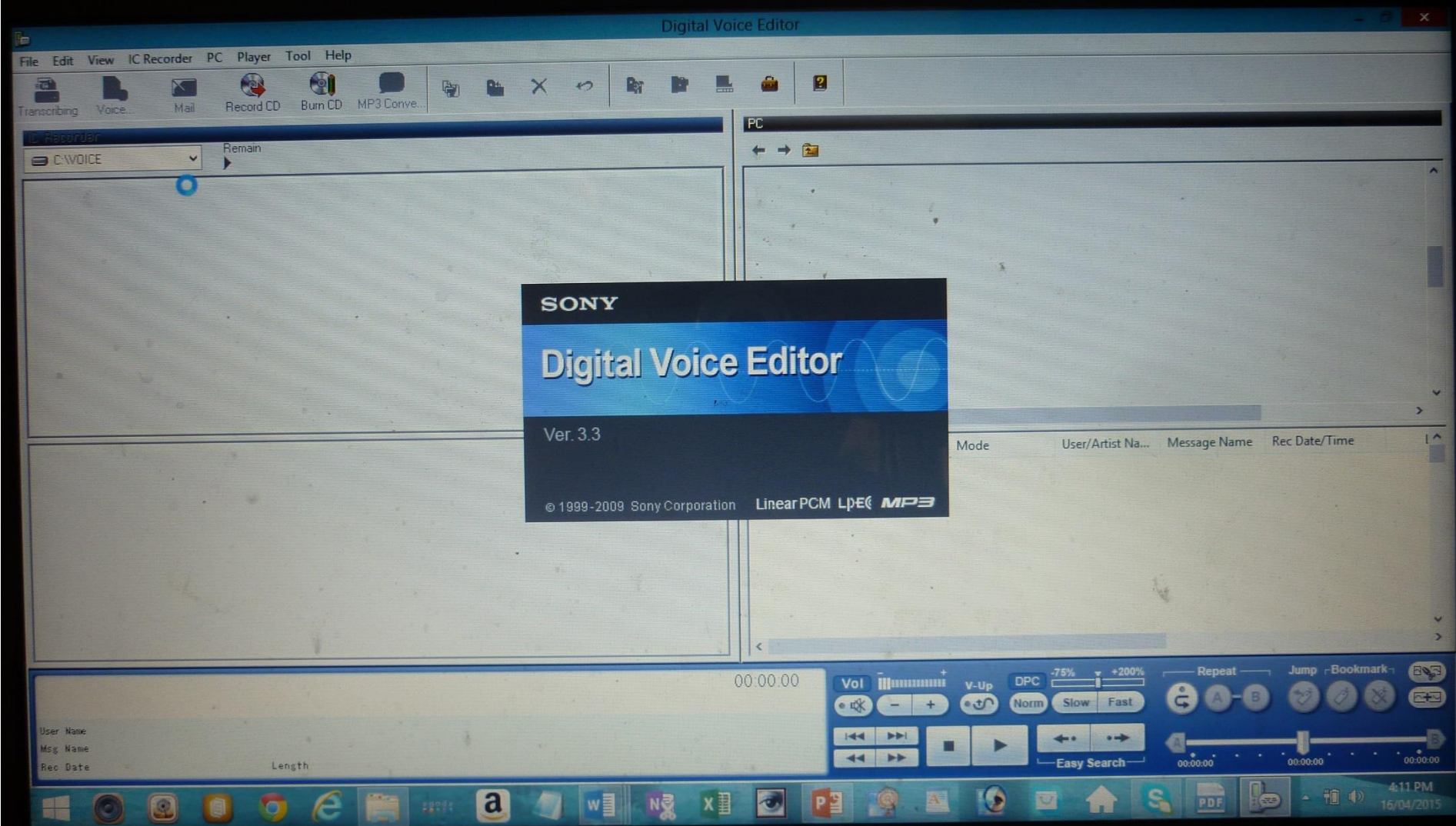
# Digital Voice Editor

Ver. 3.3

Mode

© 1999-2009 Sony Corporation    Linear PCM   LpEC   **MP3**







Digital Voice Editor

File Edit View IC Recorder PC Player Tool Help

Recording Voice... Mail Record CD Burn CD MP3 Converter

ICD-PX Series Remain

PC

- DVDVideoSoft
- Electrical Safety
- Engineering Syllabus
- Engineers Australia
- Former highlightcomputer group4 zoomshare.com
- Free Disk + DVD Burner with DVD External Writer drive
- Hard Drive Resources List
- Highlight+Elect Dip 2013 Emergency Backup
- ICT Practical Books\_files
- Intensive Session
- Lessons-iqtechnicalcollege server 3
- M1
- Management 9 August 2014
- Mgt 106

| Lock | File Name     | Mode             | User/Artist Na... | Message Name | Rec Date/Time    |     |
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|      | Mgt106(9).mp3 | SHQ (44.1kHz ... |                   | Z0000052     | 2015/01/10 19:45 | 00: |

00:00:00

User Name  
Msg Name  
Rec Date

Length

Vol V-Up DPC -75% +200% Repeat Jump Bookmark

Norm Slow Fast

Easy Search

00:00:00 00:00:00 00:00:00

4:11 PM  
16/04/2015



| Name          | Mode             | User/Artist Na... | Message Name | Rec Date/Time    |       |
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| Mgt106(8).mp3 | SHQ (44.1kHz ... |                   | Z0000051     | 2015/01/10 19:45 | 00:   |
| Mgt106(9).mp3 | SHQ (44.1kHz ... |                   | Z0000052     | 2015/01/10 19:45 | 00: ▾ |

Vol V-Up DPC -75% +200% Repeat Jump Bookmark

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4:11 PM 16/04/2015



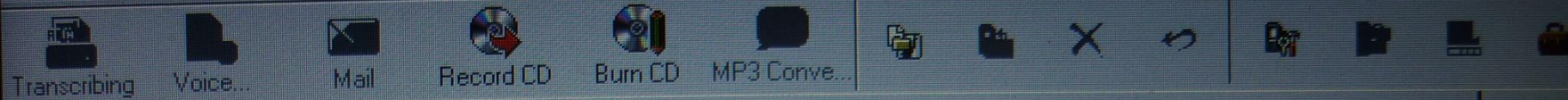








File Edit View IC Recorder PC Player Tool Help



IC Recorder ICD-PX720

ICD-PX Series

Remain  
- 988.3 MB

- A
- B
- C
- D
- E

| Lock | No. | Mode            | User/Artist Name | Message Name | Rec Date/Time    | Length   |
|------|-----|-----------------|------------------|--------------|------------------|----------|
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IC Recorder ICD-PX720

ICD-PX Series

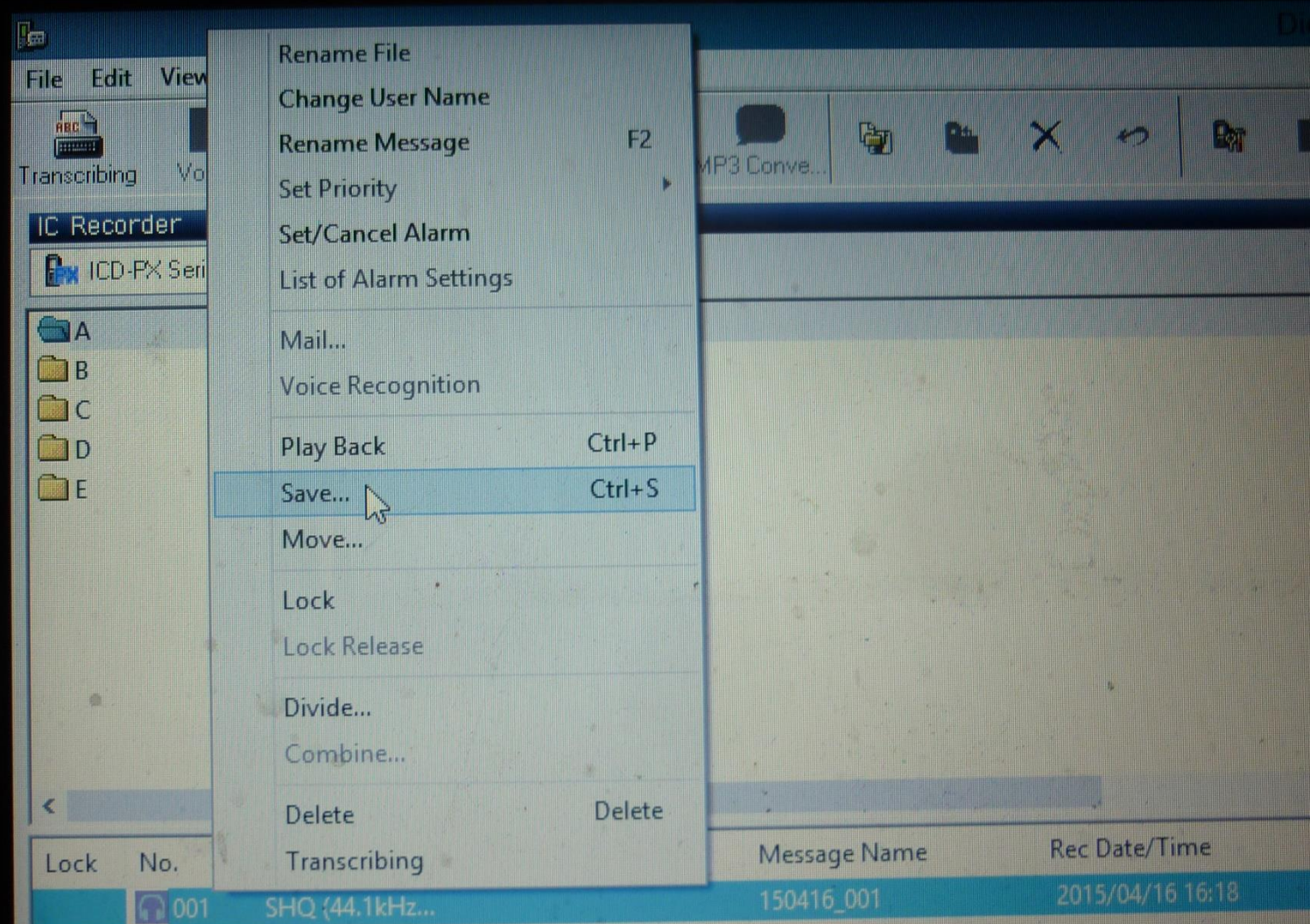
Remain  
- 988.3 MB

A  
B  
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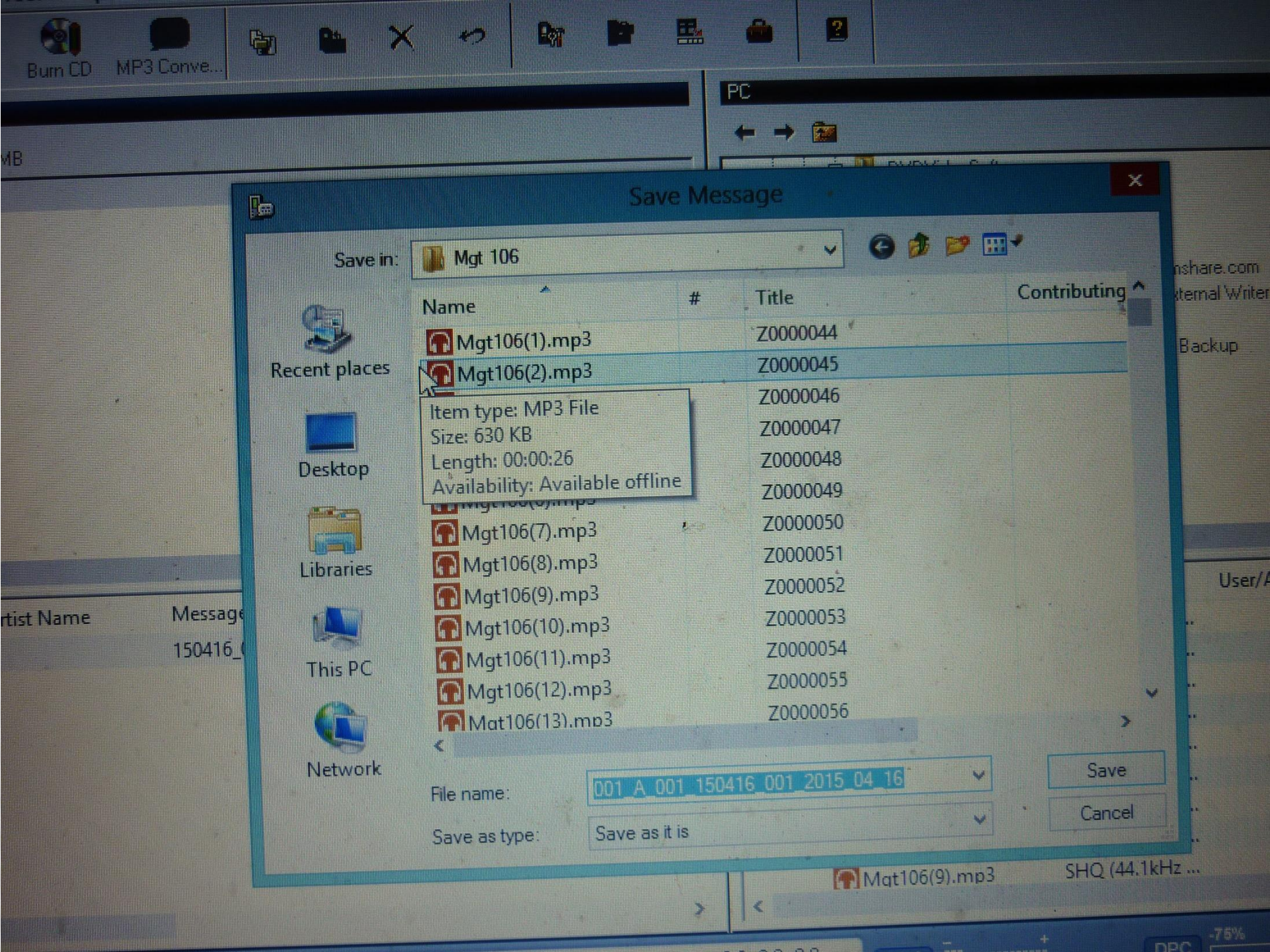
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No. 001  
User Name  
Msg Name 150416\_001  
Length 00:00:52

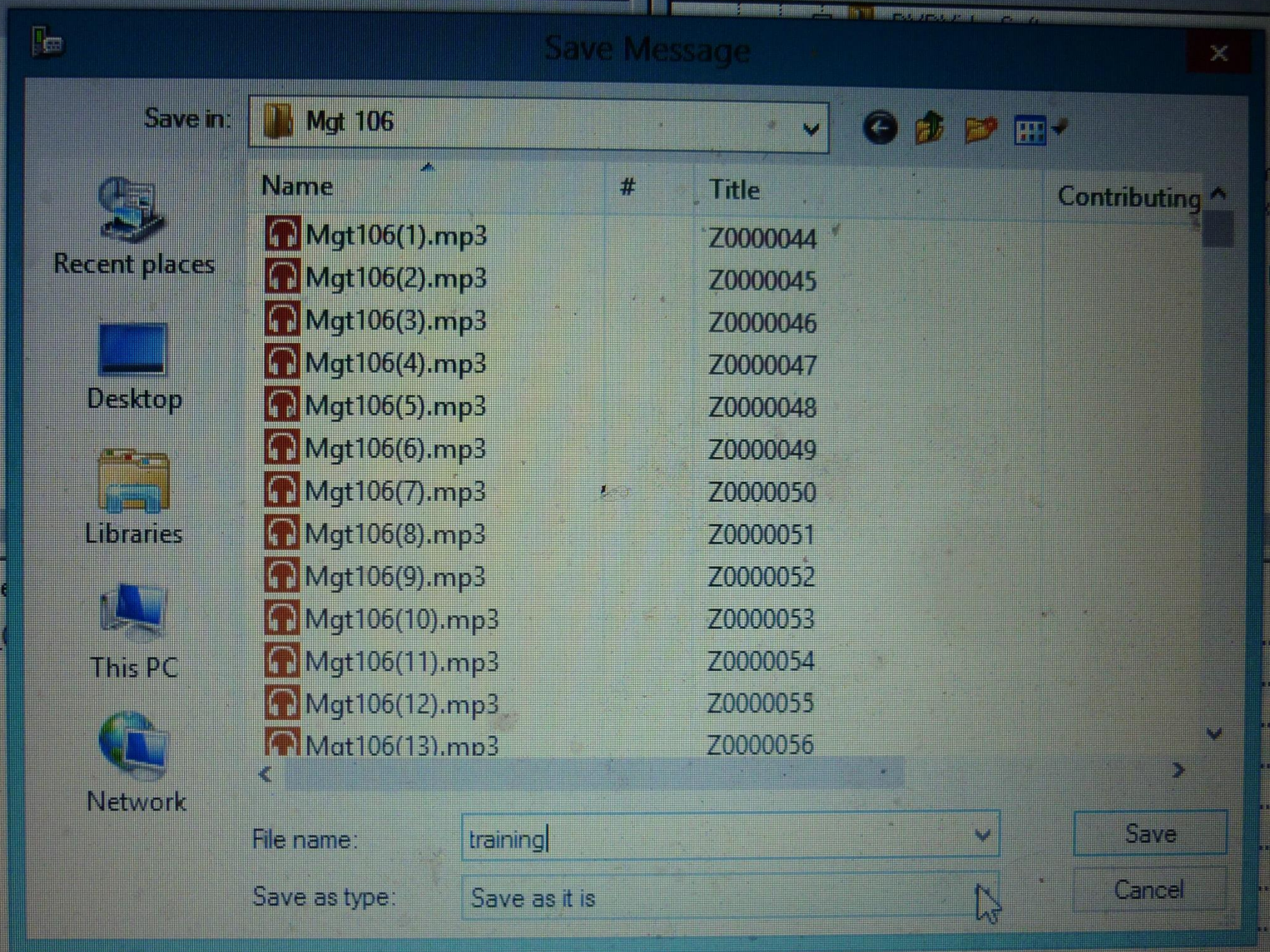












Mgt106(9).mp3

SHQ (44.1kHz ...



### Save Message

Save in: Mgt 106

Recent places

Desktop

Libraries

This PC

Network

Name

- Mgt106(1).m
- Mgt106(2).m
- Mgt106(3).m
- Mgt106(4).m
- Mgt106(5).m
- Mgt106(6).m
- Mgt106(7).m
- Mgt106(8).m
- Mgt106(9).m
- Mgt106(10).n
- Mgt106(11).n
- Mgt106(12).n
- Mat106(13).n

- Save as it is
- Auto-Conversion(\*.wav)
- 44.1kHz 16bit stereo(\*.wav)
- 11kHz 16bit monaural(\*.wav)
- MP3 (High Sound Quality: \*.mp3)
- MP3 (Standard Sound Quality: \*.mp3)
- MP3 (Small File Size: \*.mp3)
- ICD-AX Series (\*.mp3)
- ICD-PX Series (\*.mp3)
- ICD-SXxx0 Series (\*.mp3)
- ICD-SXxx0 Series (\*.wav)
- ICD-SXxx0 Series (\*.msv)
- ICD-SXx8 Series (\*.msv)
- ICD-SXx7 Series (\*.msv)
- ICD-SXx6 Series (\*.dvf)
- ICD-SXx5 Series (\*.dvf)
- ICD-SXx0 Series (\*.dvf)
- ICD-MX Series (\*.msv)
- ICD-BM Series (\*.msv)
- ICD-ST Series (\*.dvf)
- ICD-MS5xx Series (\*.msv)
- ICD-S Series (\*.msv)
- ICD-BPx50 Series (\*.dvf)
- ICD-BP100/x20 Series (\*.dvf)
- ICD-MS1 Series (\*.msv)

File name:

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Save as it is

Contributi

Message  
150416\_

Save

Cancel



# Save Message

Save in: Mgt 106

Recent places

Desktop

Libraries

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This PC

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| Mgt106(2).mp3  |   | Z0000045 |              |
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| Mgt106(5).mp3  |   | Z0000048 |              |
| Mgt106(6).mp3  |   | Z0000049 |              |
| Mgt106(7).mp3  |   | Z0000050 |              |
| Mgt106(8).mp3  |   | Z0000051 |              |
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File name:

training

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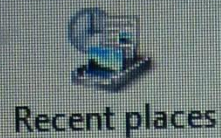
Save

Cancel



## Save Message

Save in: Detailed Course Teaching Plans



Recent places



Desktop



Libraries



This PC



Network

Name

Date modified

Type

|   |                    |             |
|---|--------------------|-------------|
| analysis of assessment records                | 1/04/2015 3:08 PM  | File folder |
| course delivery documentation                 | 1/04/2015 3:34 PM  | File folder |
| Day 7 Session 2                               | 1/04/2015 5:44 PM  | File folder |
| Day 8 Session 2                               | 1/04/2015 5:44 PM  | File folder |
| Detailed course teaching Plans_files          | 1/04/2015 11:26 PM | File folder |
| how improvements were made to assessme...     | 13/04/2015 6:06 PM | File folder |
| TAEASS502B                                    | 1/04/2015 3:11 PM  | File folder |
| TAFE Advanced Diploma in Electrical Engine... | 2/04/2015 1:30 PM  | File folder |
| TAFE Advanced Diploma in Electrical Engine... | 2/04/2015 1:31 PM  | File folder |
| TAFE Advanced Diploma in Electrical Engine... | 2/04/2015 1:33 PM  | File folder |
| youtubevideos_files                           | 2/04/2015 1:14 PM  | File folder |

File name:

training

Save as type:

MP3 (High Sound Quality: \*.mp3)

Save

Cancel



PC

← →

- Tests
- U Thunanda 28 June 2014
- Undertake the assessment of at least 20 individual candidates against a total of at least 50 units of competency from
- Voice Files
- Webpages Modified Downloaded from Net
- Wunna
- Downloads
- Music
- Pictures
- Videos
- Acer (C:)
- DVD RW Drive (D:)
- TOSHIBA EXT (E:)
- Libraries

| Lock | File Name              | Mode             | User/Artist Na... | Message Name | Rec Date/Time    |     |
|------|------------------------|------------------|-------------------|--------------|------------------|-----|
|      | Teaching in Myanmar    |                  |                   |              |                  |     |
|      | Tests                  |                  |                   |              |                  |     |
|      | U Thunanda 28 June...  |                  |                   |              |                  |     |
|      | Undertake the asses... |                  |                   |              |                  |     |
|      | Voice Files            |                  |                   |              |                  |     |
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Vol v-Up DPC -75% +200%

Norm Slow Fast

Repeat A B



PC



- Tests
- U Thunanda 28 June 2014
- Undertake the assessment of at least 20 individual candidates against a total of at least 50 units of competency from
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| Lock | File Name              | Mode             | User/Artist Na... | Message Name | Rec Date/Time    |          |
|------|------------------------|------------------|-------------------|--------------|------------------|----------|
|      | Teaching in Myanmar    |                  |                   |              |                  |          |
|      | Tests                  |                  |                   |              |                  |          |
|      | U Thunanda 28 June...  |                  |                   |              |                  |          |
|      | Undertake the asses... |                  |                   |              |                  |          |
|      | Voice Files            |                  |                   |              |                  |          |
|      | Webpages Modified...   |                  |                   |              |                  |          |
|      | Wunna                  |                  |                   |              |                  |          |
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Vol v-up DPC -75% +200% Repeat Jump Bookmark



- Music
- Pictures
- Videos
- Acer (C:)
- DVD RW Drive (D:)
- TOSHIBA EXT (E:)
- Libraries

| File Name              | Mode             | User/Artist Na... | Message Name | Rec Date/Time    |       |
|------------------------|------------------|-------------------|--------------|------------------|-------|
| Teaching in Myanmar    |                  |                   |              |                  |       |
| Tests                  |                  |                   |              |                  |       |
| U Thunanda 28 June...  |                  |                   |              |                  |       |
| Undertake the asses... |                  |                   |              |                  |       |
| Voice Files            |                  |                   |              |                  |       |
| Webpages Modified...   |                  |                   |              |                  |       |
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| training.mp3           | SHQ (44.1kHz ... |                   | 150416_001   | 2015/04/16 16:18 | 00:00 |

Vol

V-Up

DPC

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Repeat

Jump

Bookmark

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Norm

Slow

Fast

A

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Divide a file

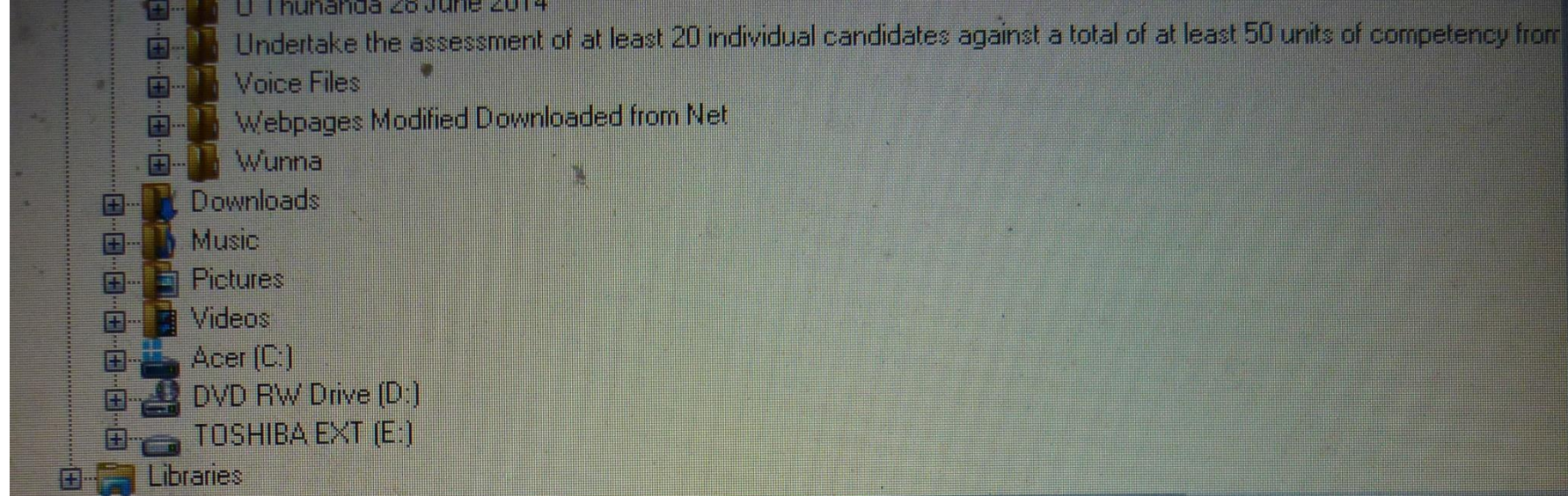
Easy Search

00:00:00

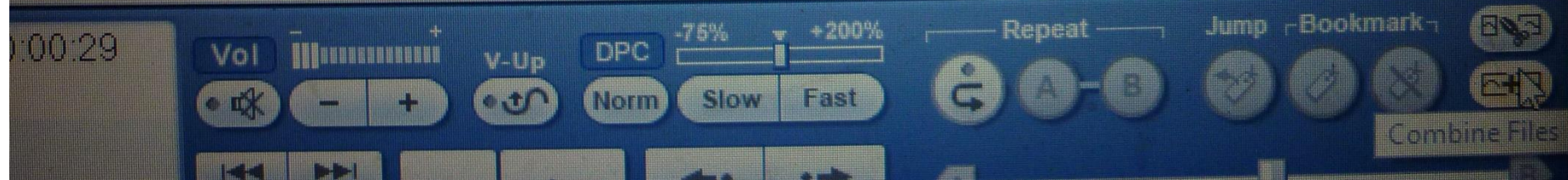
00:00:26

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| Lock | File Name              | Mode             | User/Artist Na... | Message Name | Rec Date/Time    |     |
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|      | Tests                  |                  |                   |              |                  |     |
|      | U Thunanda 28 June...  |                  |                   |              |                  |     |
|      | Undertake the asses... |                  |                   |              |                  |     |
|      | Voice Files            |                  |                   |              |                  |     |
|      | Webpages Modified...   |                  |                   |              |                  |     |
|      | Wunna                  |                  |                   |              |                  |     |
|      | training.mp3           | SHQ (44.1kHz ... |                   | 150416_001   | 2015/04/16 16:18 | 00: |





### SUCCESSIVE DIFFERENTIATION

$$y = x^3 + 3x^2 + 4$$

$$\begin{aligned}\Rightarrow \frac{dy}{dx} &= \frac{d}{dx} [x^3 + 3x^2 + 4] \\ &= \frac{d}{dx} x^3 + \frac{d}{dx} 3x^2 + \frac{d}{dx} 4 \\ &= 3x^{3-1} + 3 \times 2x^{2-1} + 0 \\ &= 3x^2 + 6x\end{aligned}$$

$$\begin{aligned}\frac{d^2y}{dx^2} &= \frac{d}{dx} [3x^2 + 6x] \\ &= \frac{d}{dx} 3 [x^2 + 2x]\end{aligned}$$

$$\begin{aligned}\frac{d^2y}{dx^2} &= 3 \left[ \frac{dx^2}{dx} + \frac{d2x}{dx} \right] \\ &= 3 [2x^{2-1} + 2] \\ &= 3 [2x + 2] \\ &= 6(x+1) \quad \times\end{aligned}$$



$$\frac{d}{dx} (\sin \theta) = \sec^2 \theta \quad \left| \frac{d}{dx} \cos \theta = -\sec \theta \tan \theta \right.$$

$$\frac{d}{dx} \tan \theta = -\cos \theta^2 \theta \quad \left| \frac{d}{dx} \sec \theta = \sec \theta \tan \theta \right.$$

$$y = e^u \rightarrow \frac{dy}{dx} = e^u \frac{du}{dx}$$

$$y = \ln u \rightarrow \frac{dy}{dx} = \frac{1}{u} \frac{du}{dx}$$

Q10 DIFFERENTIATE  $y = \log_e x^2$

$$\frac{dy}{dx} = \frac{d}{dx} (\ln x^2) = \frac{1}{x^2} \frac{dx^2}{dx} = \frac{1}{x^2} \cdot 2x \frac{dx}{dx}$$

$$= \frac{2x}{x^2} = \frac{2}{x}$$

COLLECTIVE DIFFERENTIATION

$$y = x^3 + 3x^2 + 4 \quad \text{find } \frac{dy}{dx}, \frac{d^2y}{dx^2}, \frac{d^3y}{dx^3}$$

$$\frac{dy}{dx} = \frac{d}{dx} (x^3 + 3x^2 + 4)$$

$$= \frac{d}{dx} x^3 + \frac{d}{dx} 3x^2 + \frac{d}{dx} 4 = 3x^2 + 3 \cdot 2x + 0$$

$$= 3x^2 + 6x$$

$$\frac{d^2y}{dx^2} = \frac{d}{dx} (3x^2 + 6x) = \frac{d}{dx} 3x^2 + \frac{d}{dx} 6x$$

$$= 3 \times 2x^1 + 6 \frac{dx}{dx}$$

$$= 6x + 6$$

$$\frac{d^3y}{dx^3} = \frac{d}{dx} (6x + 6) = \frac{d}{dx} 6x + \frac{d}{dx} 6 = 6 \frac{dx}{dx} + 0$$

$$= 6$$

DIFFERENTIATION OF IMPLICIT FUNCTIONS

Q11 DIFFERENTIATE  $x^2 + y^2 = 4$

$$\frac{d}{dx} (x^2 + y^2) = \frac{d}{dx} 4 \rightarrow \frac{dx^2}{dx} + \frac{dy^2}{dx} = 0$$

$$2x^{2-1} \frac{dx}{dx} + 2y^{2-1} \frac{dy}{dx} = 0$$

$$2x + 2y \frac{dy}{dx} = 0$$

$$2y \frac{dy}{dx} = -2x$$

$$\frac{dy}{dx} = -\frac{2x}{2y} = -\frac{x}{y}$$

QUESTION 12  
Find  $\frac{dy}{dx}$  if  $x^2 + y^2 = 4$

QUESTION 13

Find  $\frac{dy}{dx}$  if  $y = \sin x$

Find  $\frac{dy}{dx}$  if  $y = \cos x$

Find  $\frac{dy}{dx}$  if  $y = \tan x$

Find  $\frac{dy}{dx}$  if  $y = \sec x$

Find  $\frac{dy}{dx}$  if  $y = \csc x$

Find  $\frac{dy}{dx}$  if  $y = \cot x$



## Samples

Learning Platform example

<http://www.highlightcomputer.com/onlineteaching1.htm>

Using multimedia & videos in teaching & Learning

<http://www.highlightcomputer.com/videos1.htm>

Using Youtube in teaching & learning

<http://www.highlightcomputer.com/videos2.htm>

## Online & E-Learning Lessons

**[www.highlightcomputer.com/onlineteaching1.htm](http://www.highlightcomputer.com/onlineteaching1.htm)**

Online & E-Learning Lessons can be studied by the following ways

- Log in the learning support site, download the study guides, then download the lessons , references and exercises. Study & submit the assignments.
- Login the learning support site, download the online multimedia lessons, study & sit the tests.
- Receive the CD containing the lessons, study & submit the assignments.
- Receive the online link by e-mail from the tutor, download the study guides, then download the lessons , references and exercises. Study & submit the assignments.
- Assignments can be submitted by e-mail.

Click [HERE](#) to log in the lesson sequences. The link from PDF File needs the password. You will need the password. The password will be issued to the enrolled students.

Click [HERE](#) to log in the online study materials. You will need the password. The password will be issued to the enrolled students.

Click [HERE](#) to log in the online videos. You will need the password. The password will be issued to the enrolled students.

Click [HERE](#) to log in to the online electrical/  
mechanical/civil practical materials. You will need the  
password.

The password will be issued to the enrolled students.

Click [HERE](#) to log in to the Learning Platform

Click [HERE](#) to log in to the following programs

- Diploma in Automotive Engineering+
- Diploma in Marine Engineering+
- Bachelor of Education+
- Master of Management+
- Master of Applied Science (Information Technology)+
- Master of Science (Renewable Energy)

## Learning Support Study Guides

Click [HERE](#) to log in to the following programs

- Bachelor of Applied Engineering (Electrical & Electronics) with Certificate IV in Electrical & Electronics Trades Studies

Click [HERE](#) to log in to the following programs

## VIDEO EDITING

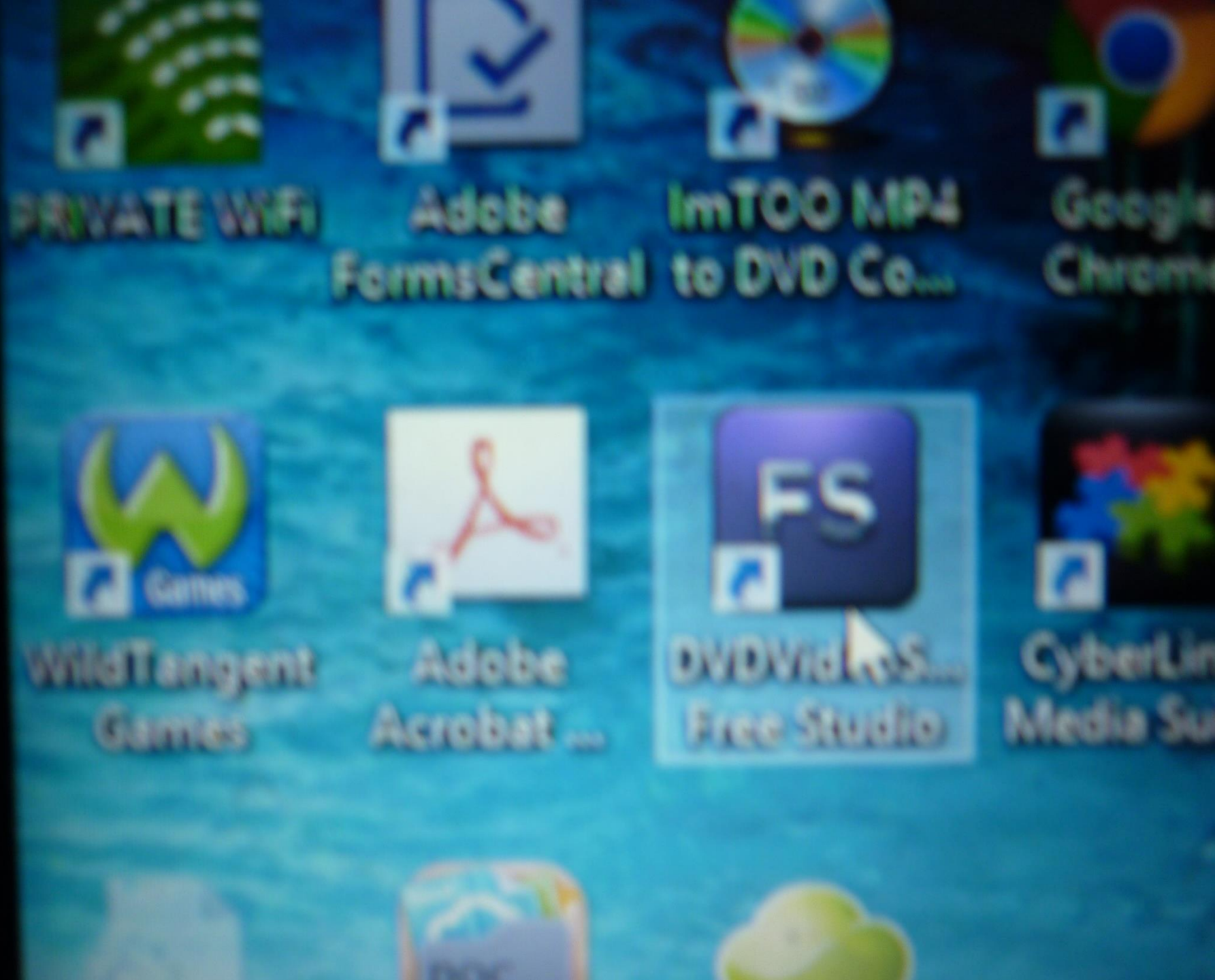
Conversion of video file format using video editing software

### Software

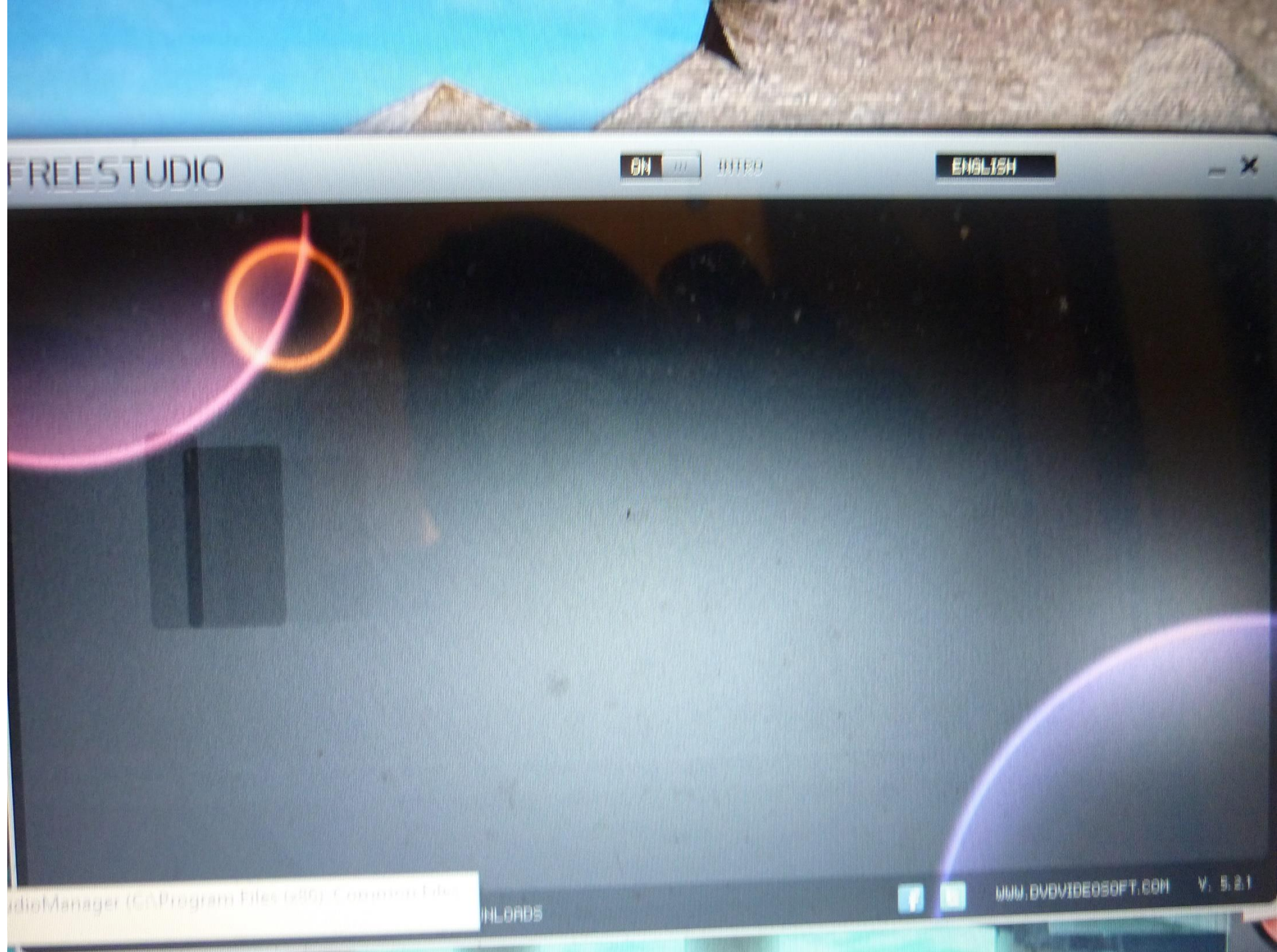
- DVD/Video Free Studio

Convert MP4-AVI-DVD file format

- MP4- Small file size to upload internet / Youtube
- AVI- For power point
- DVD- Compatible with DVD Player/ Portable DVD Player/ DVD disk









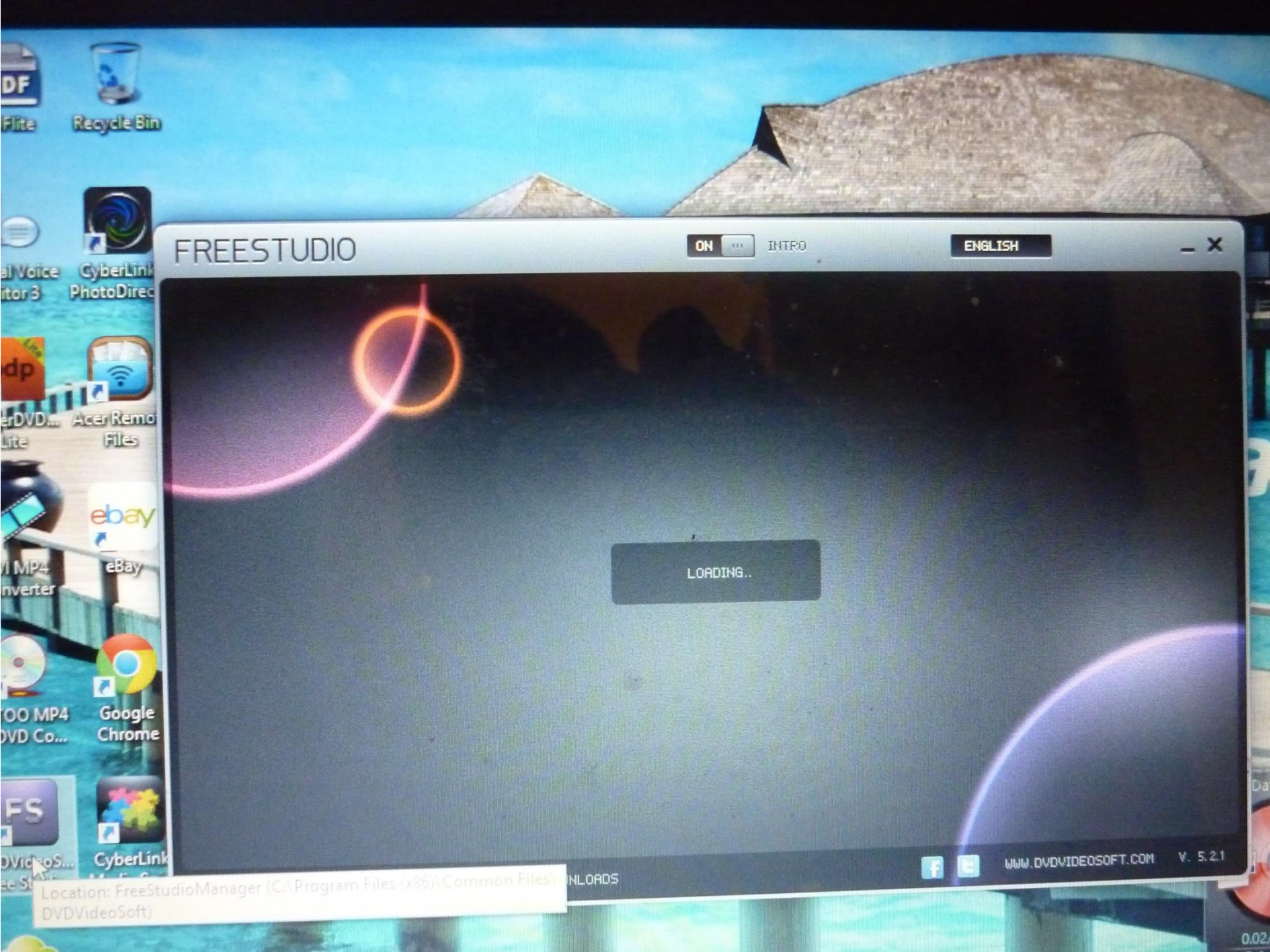


Location: FreeStudioManager (C:\Program Files (x86)\Common Files\DVDVideoSoft)

DOWNLOADS

f e WWW.DVDVIDEOISOFT.COM V. 5.2.1





FREESTUDIO

ON

INTRO

ENGLISH

LOADING..

WWW.DVDVIDEO50FT.COM

V. 5.2.1

Location: FreeStudioManager (C:\Program Files (x86)\Common Files\DVDVideoSoft)











FREESTUDIO

ON

INTRO

ENGLISH



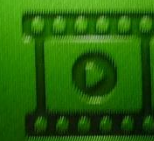
YOUTUBE



MP3 & AUDIO



CD, DVD, BD



DVD & VIDEO



PHOTO & IMAGES



MOBILES



APPLE DEVICES



ioManager (C:\Program Files (x86)\Common Files\Downloads



WWW.DVDVIDEOISOFT.COM

V. 5.2.1



ENGLISH



CD, DVD, BD





◀ BACK



FREE WEBM VIDEO CONVERTER



FREE VIDEO FLIP & ROTATE



FREE VIDEO TO DVD



FREE VIDEO TO FLASH



FREE VIDEO DUB



FREE VIDEO TO MP3



FREE 3D VIDEO MAKER



FREE VIDEO TO JPG



FREE DVD VIDEO BURNER



FREE 3GP VIDEO CONVERTER



FREE DVD VIDEO CONVERTER



← BACK



FREE WEBM VIDEO CONVERTER



FREE VIDEO FLIP & ROTATE



FREE VIDEO TO DVD



FREE VIDEO TO FLASH



FREE VIDEO DUB



FREE VIDEO TO MP3



FREE 3D VIDEO MAKER



FREE VIDEO TO JPG



FREE DVD VIDEO BURNER

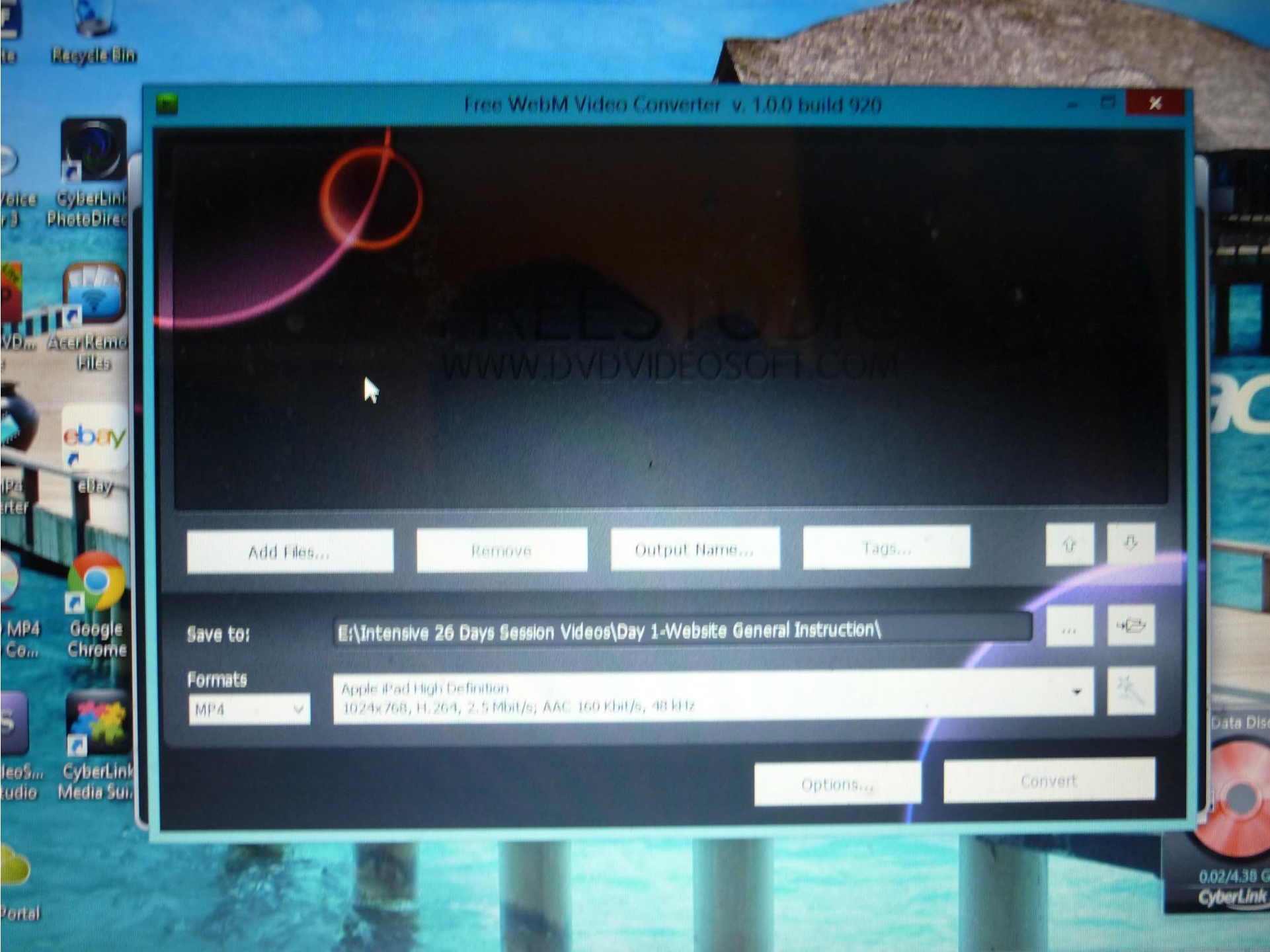


FREE 3GP VIDEO CONVERTER



FREE DVD VIDEO CONVERTER







## Free WebM Video Converter v. 1.0.0 build 920

Open

← → ↑ This PC Documents Search Documents

Organize New folder

★ Favorites

This PC

- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Acer (C:)
- TOSHIBA EXT (E:)

Network

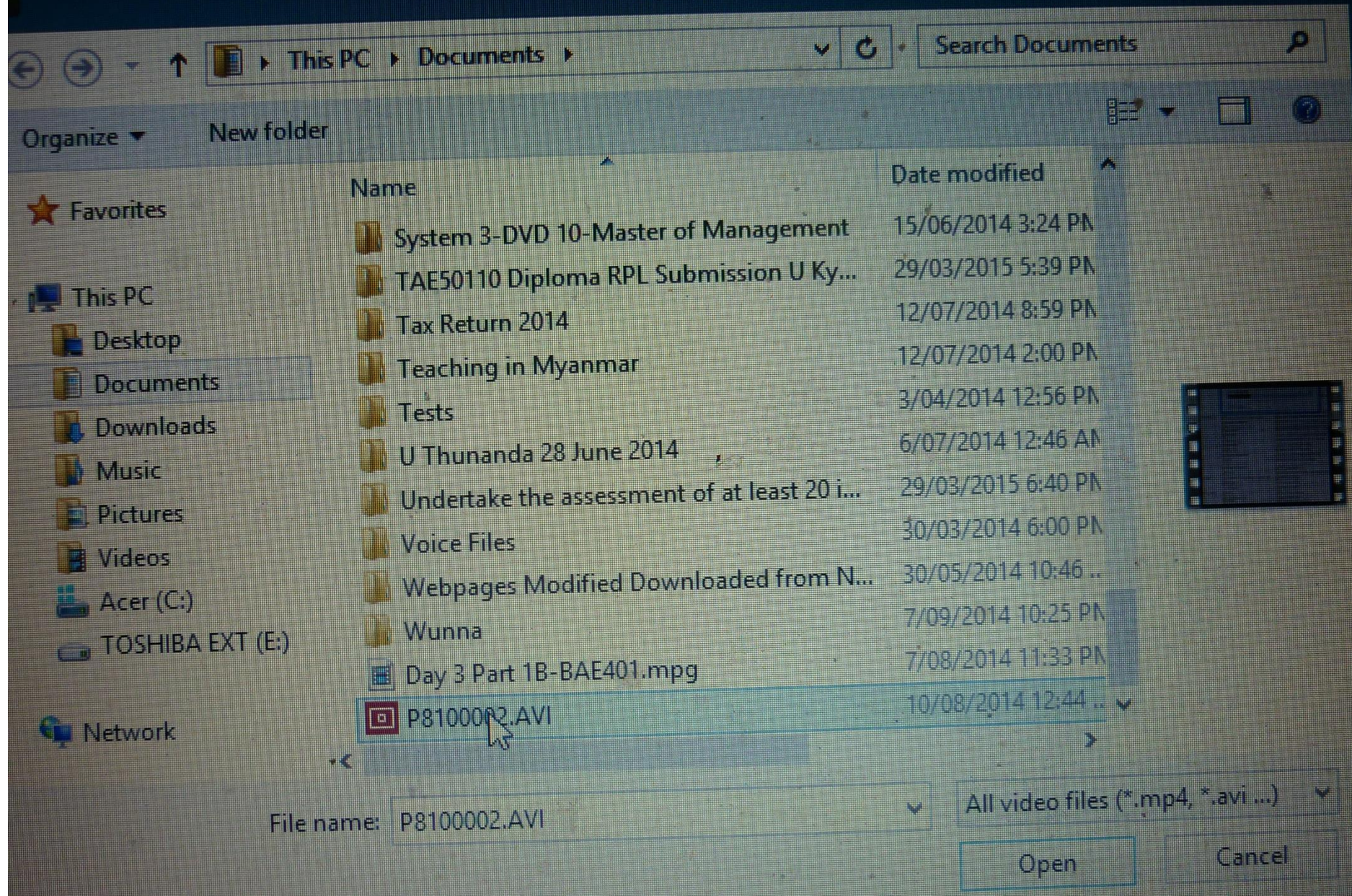
| Name                                     | Date modified       |
|--|---------------------|
| Adobe+Photoshop+PDF Programs             | 25/04/2014 4:43 PM  |
| AMEX                                     | 1/04/2014 9:08 PM   |
| B App Eng+Dip Engg Enrolment             | 1/04/2014 8:55 PM   |
| B Bus (E-Business+Mgt)-System 3-DVD 1... | 15/06/2014 3:39 PM  |
| BE Tests                                 | 13/06/2014 5:36 PM  |
| BE-Elect-Year 3+4                        | 27/07/2014 2:32 PM  |
| BE-Yr 2+3+4 Tests+Exercises              | 15/05/2014 11:54 .. |
| Business                                 | 20/04/2014 2:40 PM  |
| CD Resources List                        | 20/06/2014 12:32 .. |
| Cert Exercises                           | 4/01/2015 5:49 PM   |
| Cert+Dip+Adv Dip+ Bachelor Degree Les... | 4/07/2014 12:34 PM  |
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|  System 3-DVD 10-Master of Management         | 15/06/2014 3:24 PM  |
|  TAE50110 Diploma RPL Submission U Ky...      | 29/03/2015 5:39 PM  |
|  Tax Return 2014                              | 12/07/2014 8:59 PM  |
|  Teaching in Myanmar                          | 12/07/2014 2:00 PM  |
|  Tests  | 3/04/2014 12:56 PM  |
|  U Thunanda 28 June 2014                      | 6/07/2014 12:46 AM  |
|  Undertake the assessment of at least 20 i... | 29/03/2015 6:40 PM  |
|  Voice Files                                  | 30/03/2014 6:00 PM  |
|  Webpages Modified Downloaded from N...       | 30/05/2014 10:46 .. |
|  Wunna  | 7/09/2014 10:25 PM  |
|  Day 3 Part 1B-BAE401.mpg                     | 7/08/2014 11:33 PM  |
|  P8100002.AVI                                | 10/08/2014 12:44 .. |

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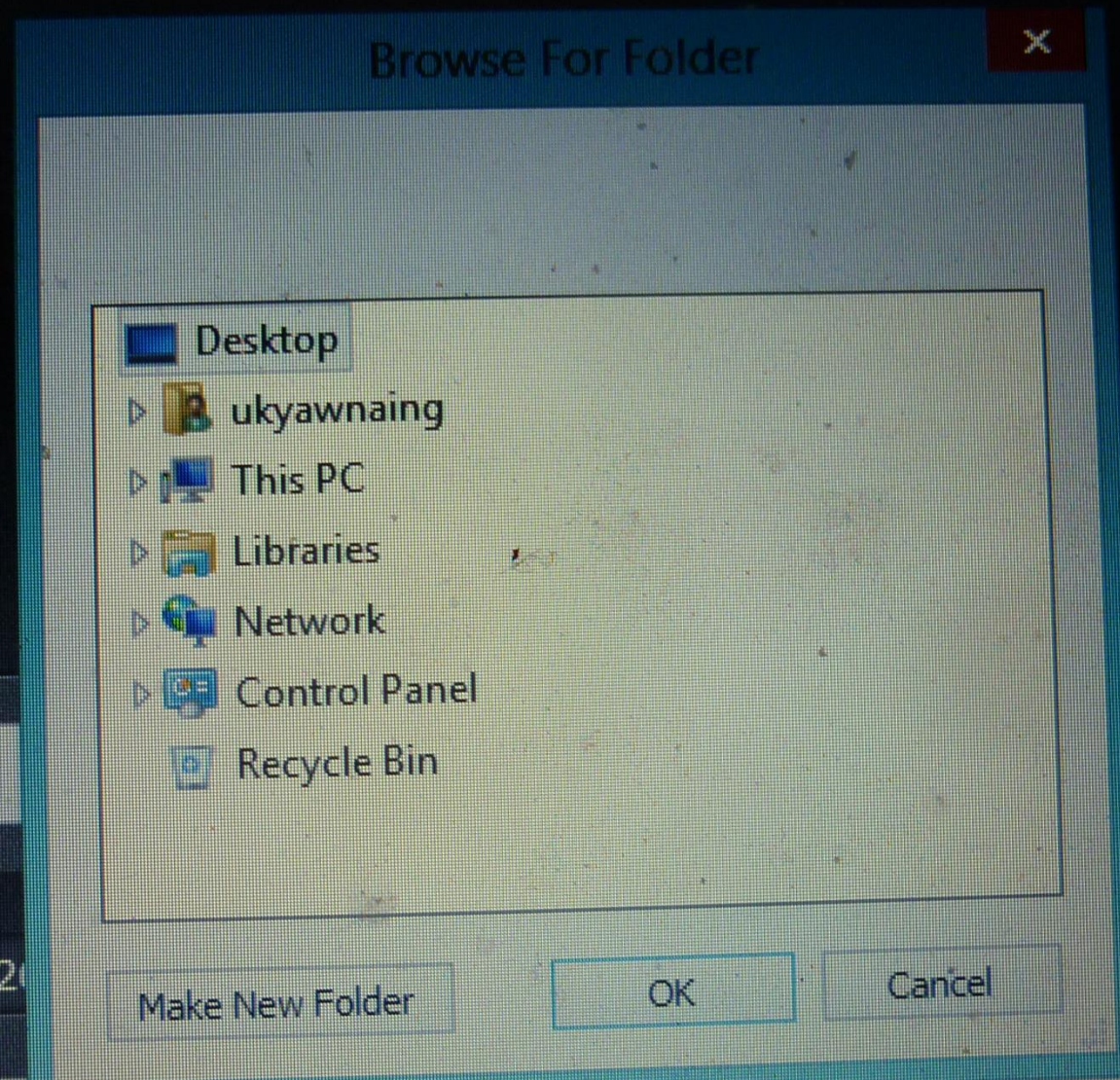
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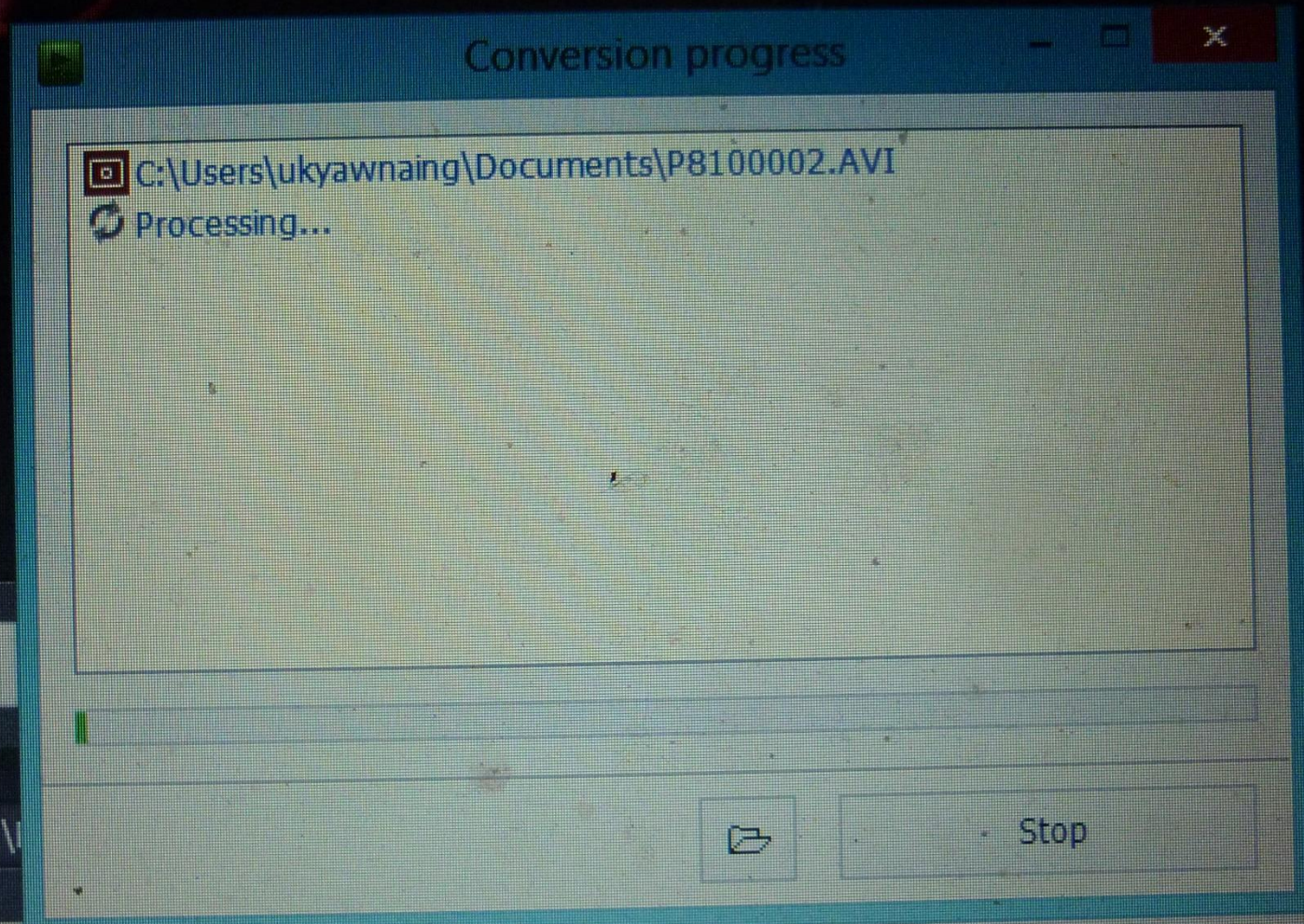


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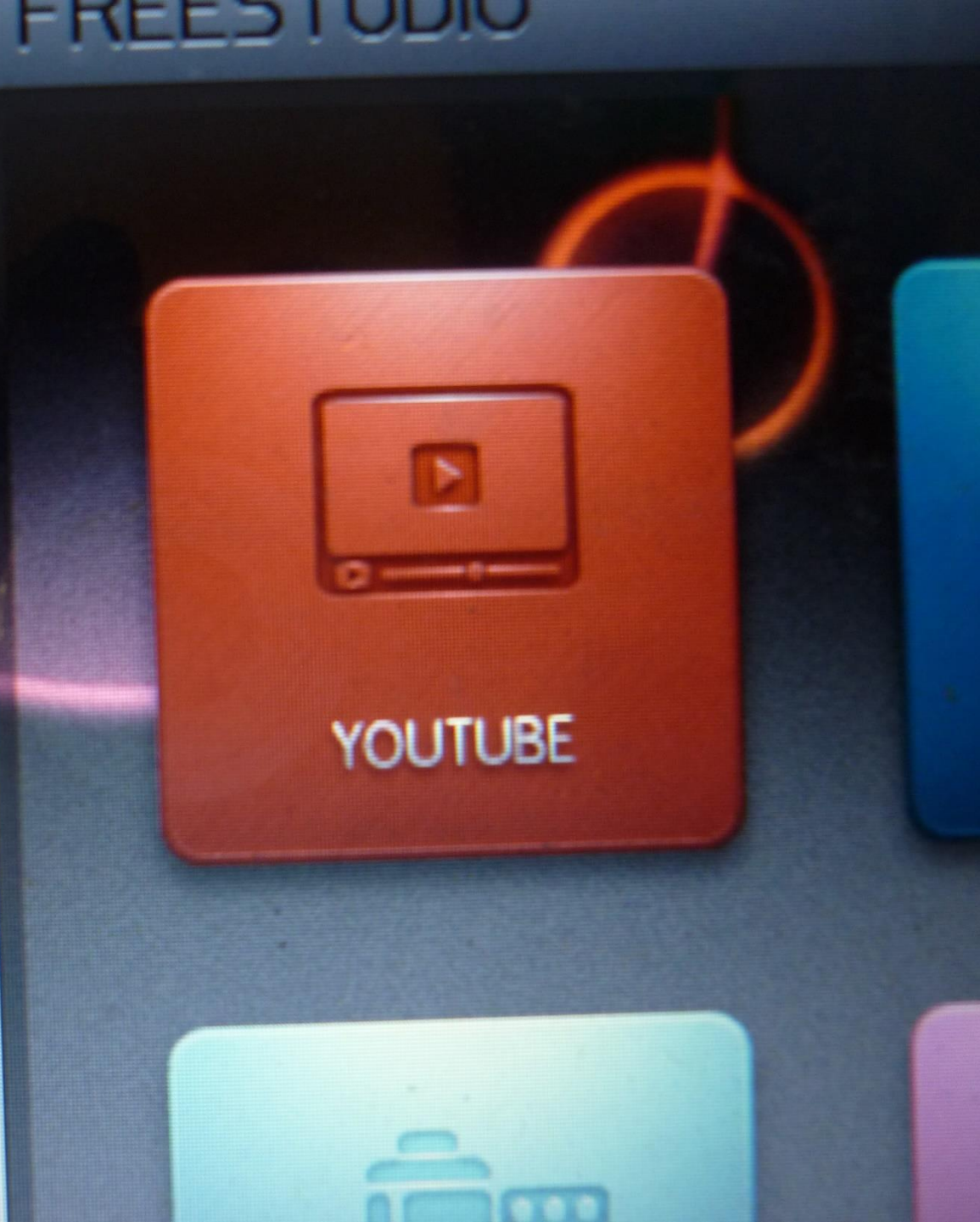
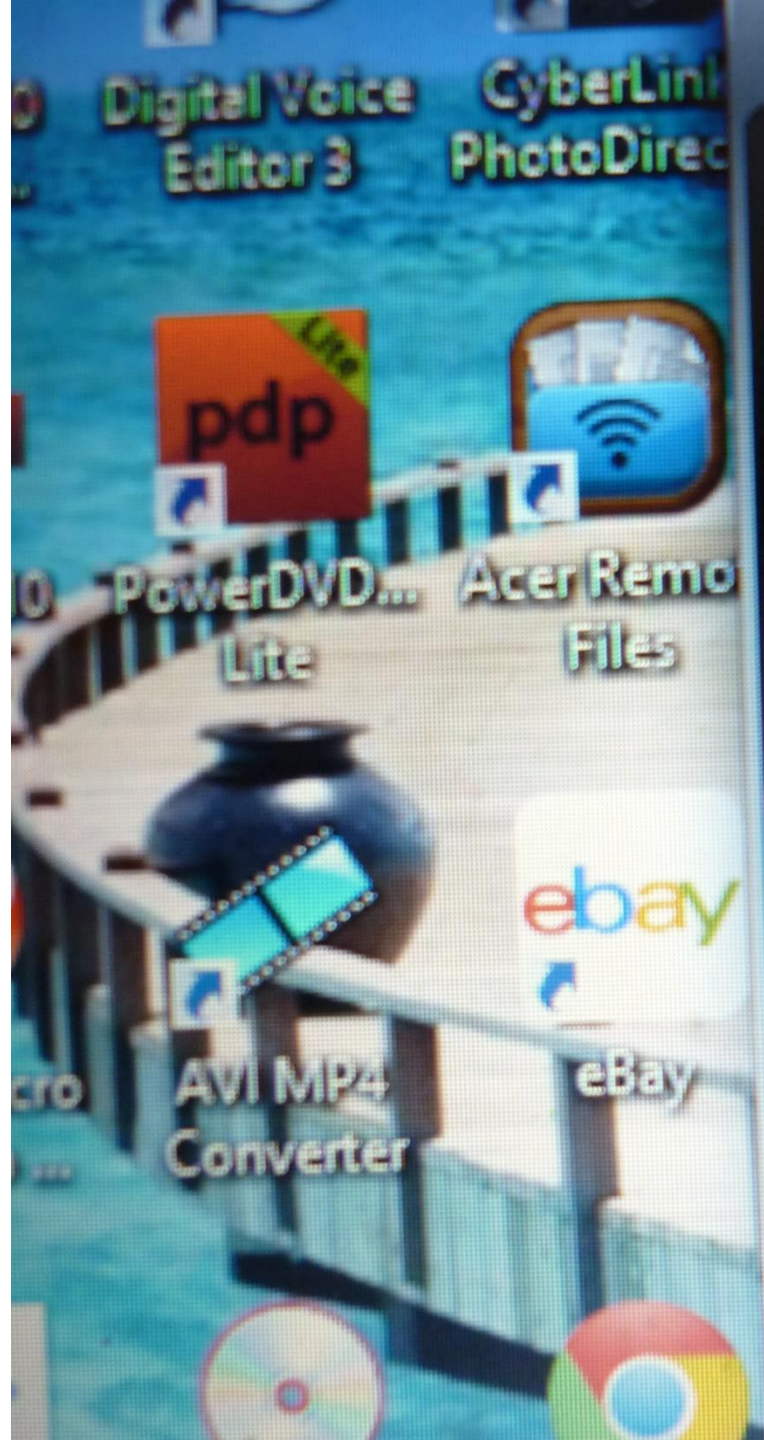
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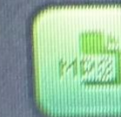
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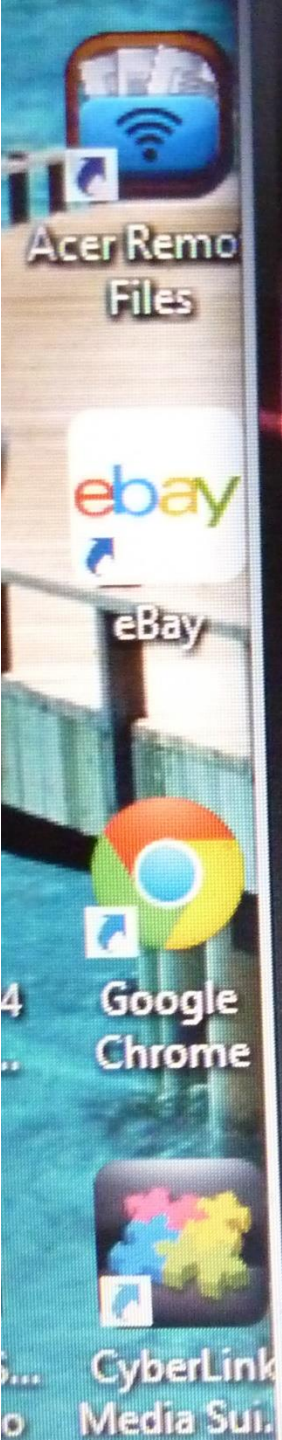



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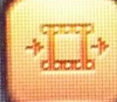





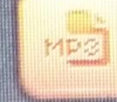
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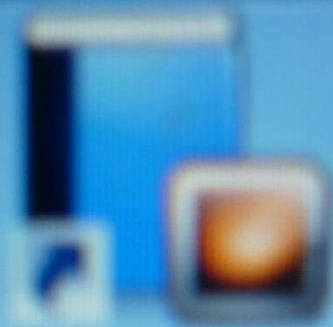
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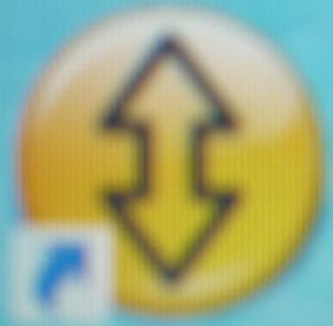
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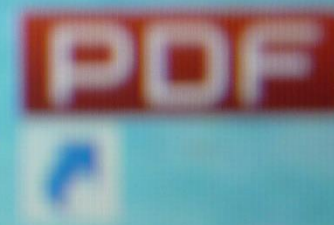
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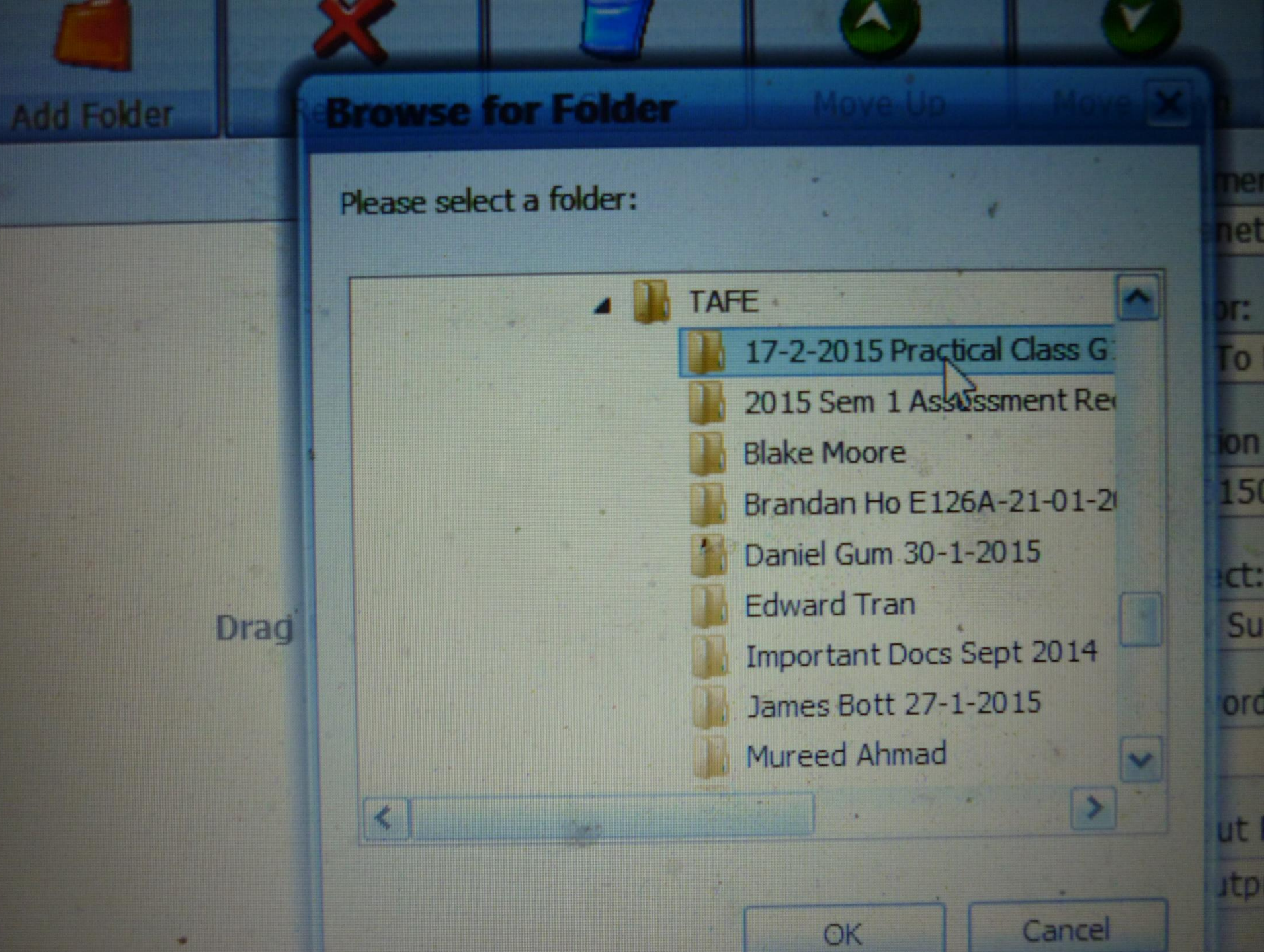
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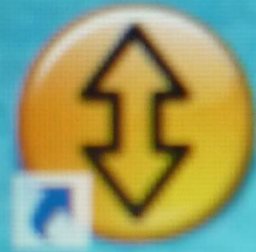
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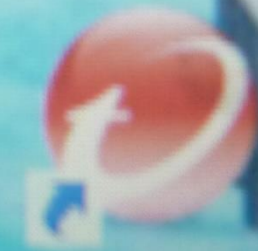
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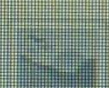
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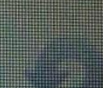


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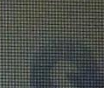
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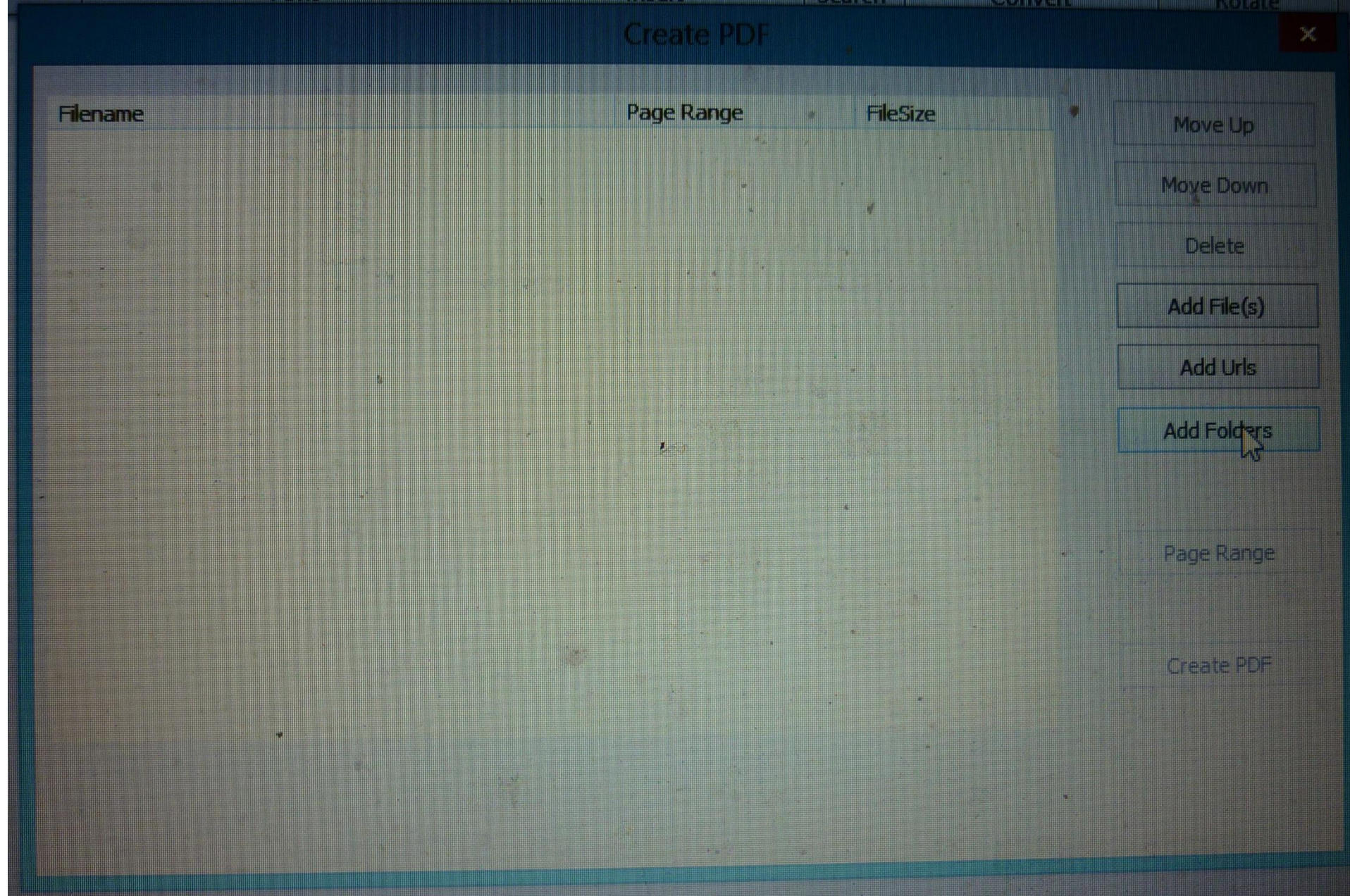
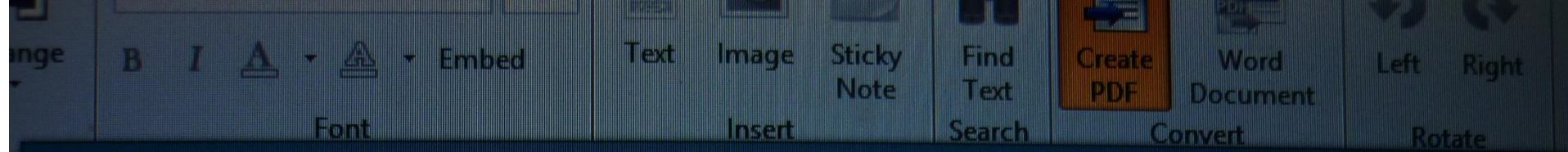


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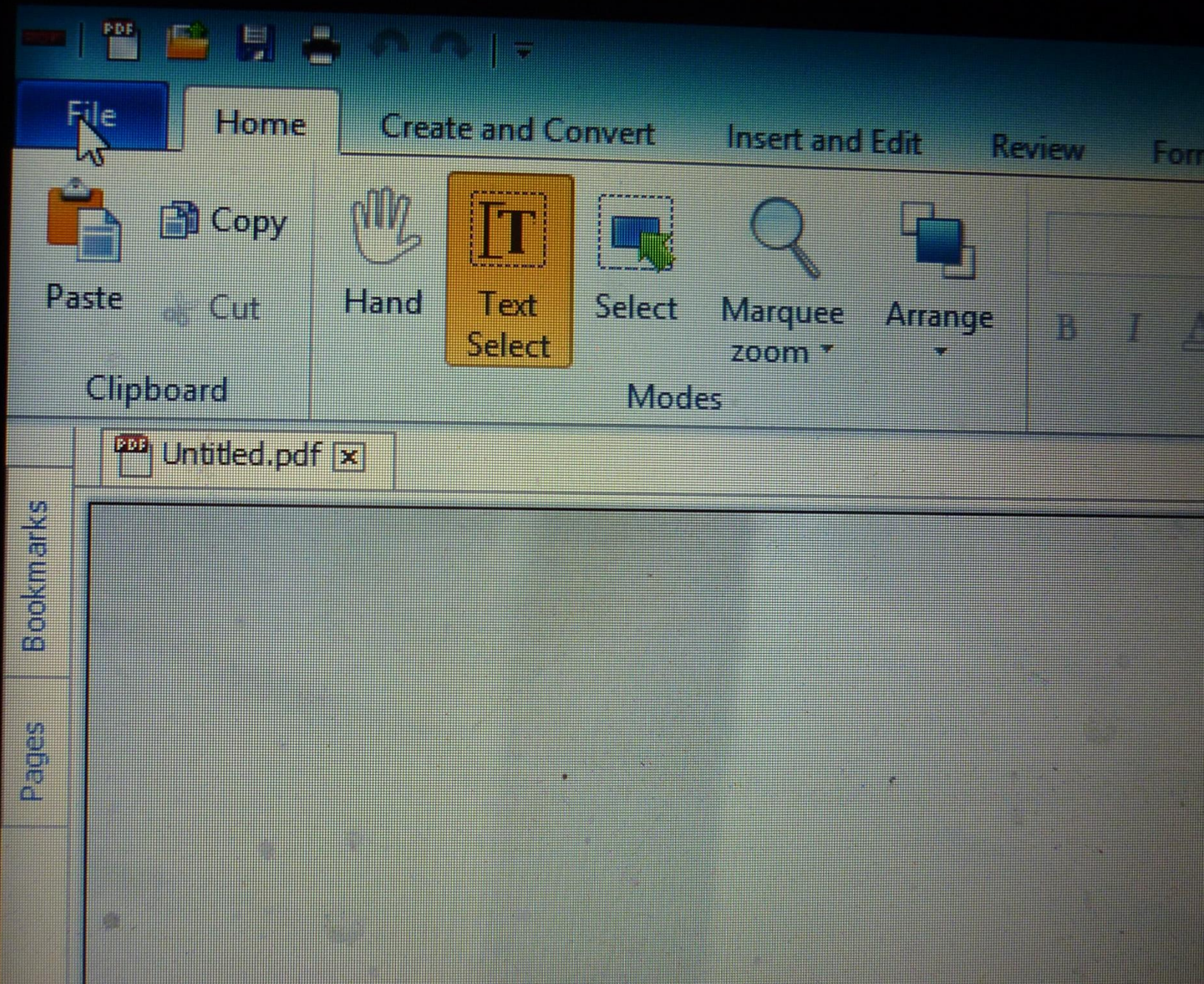
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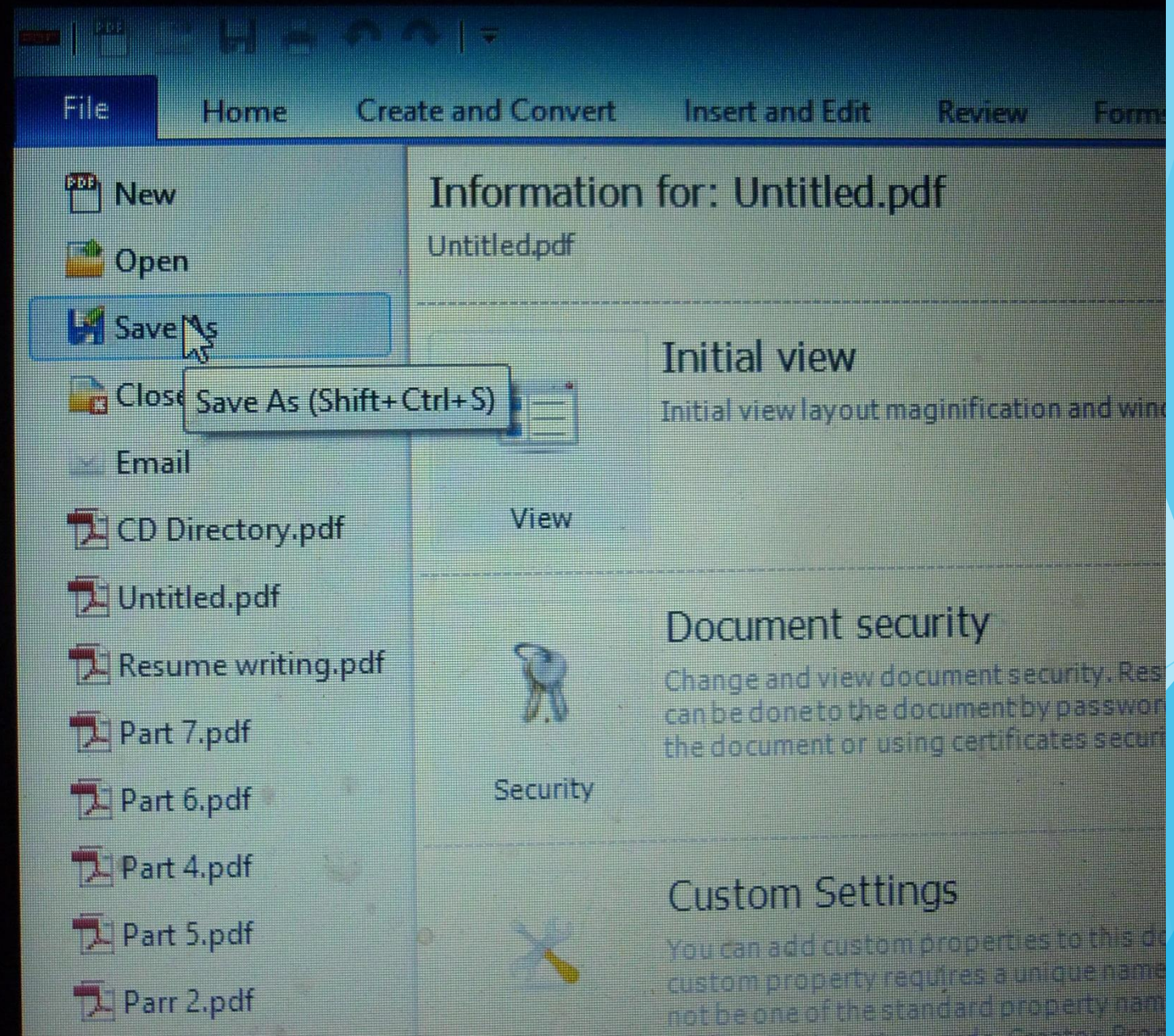
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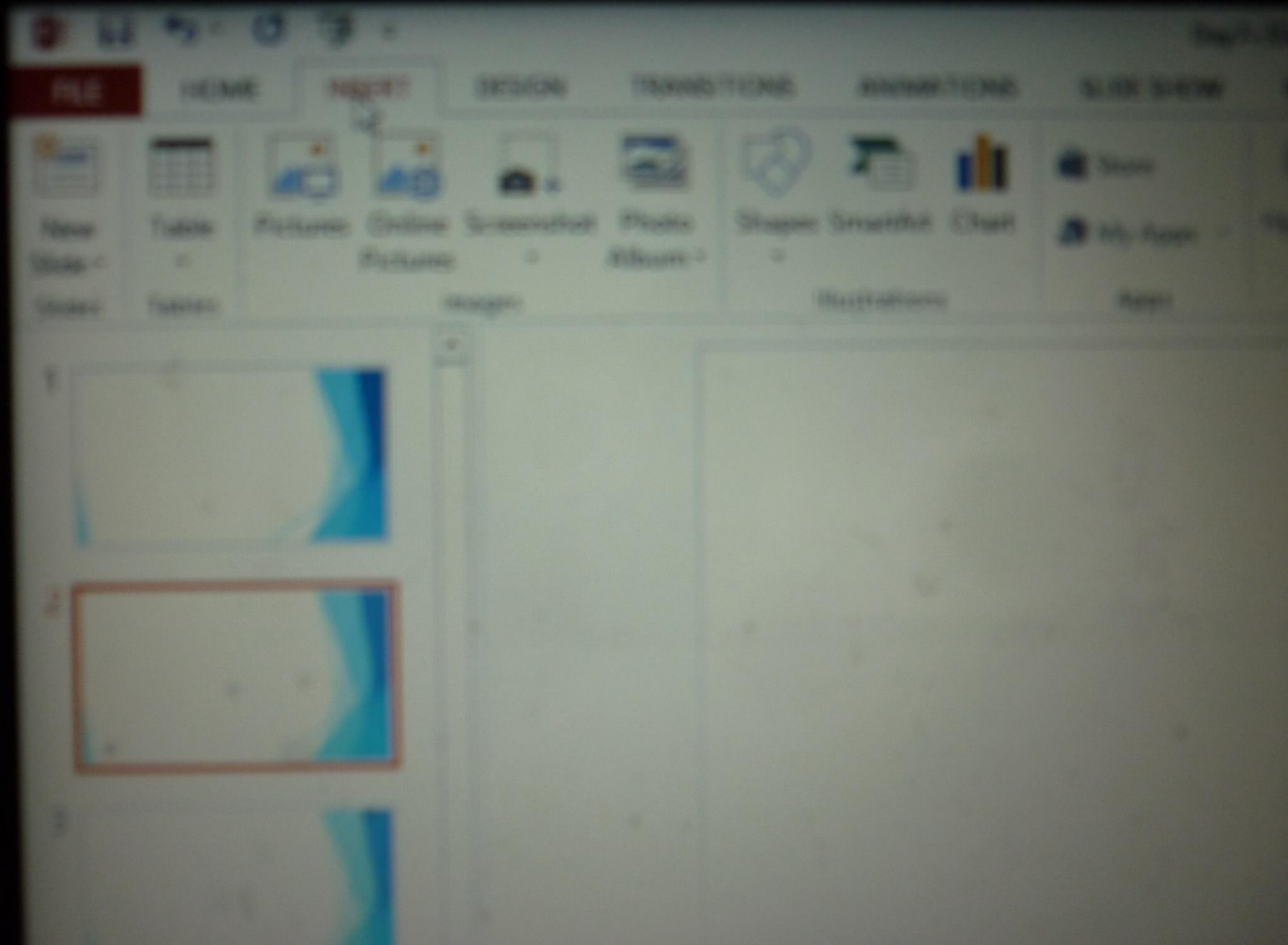
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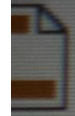




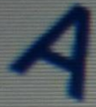
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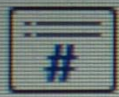


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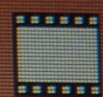


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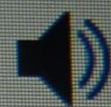


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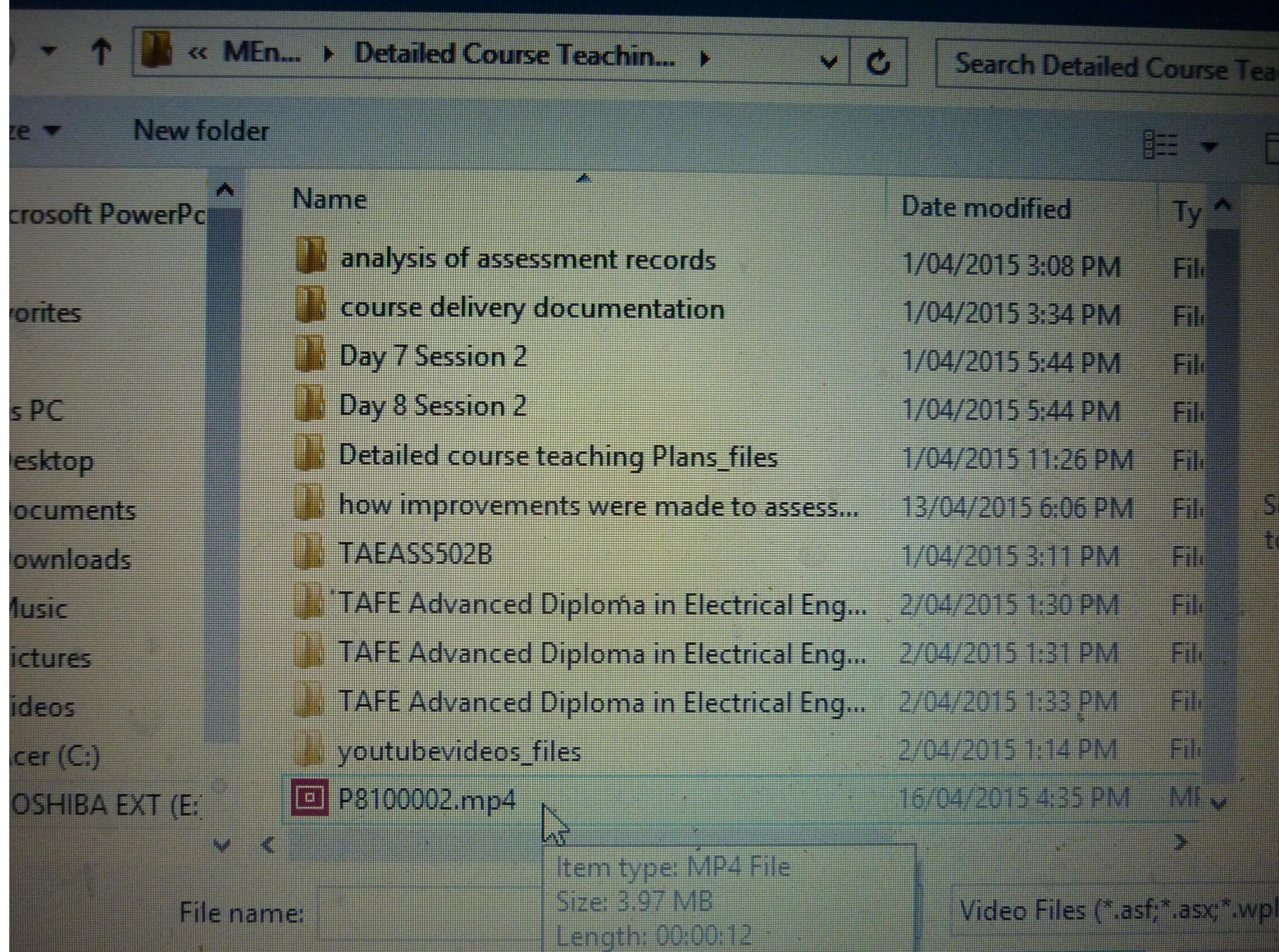
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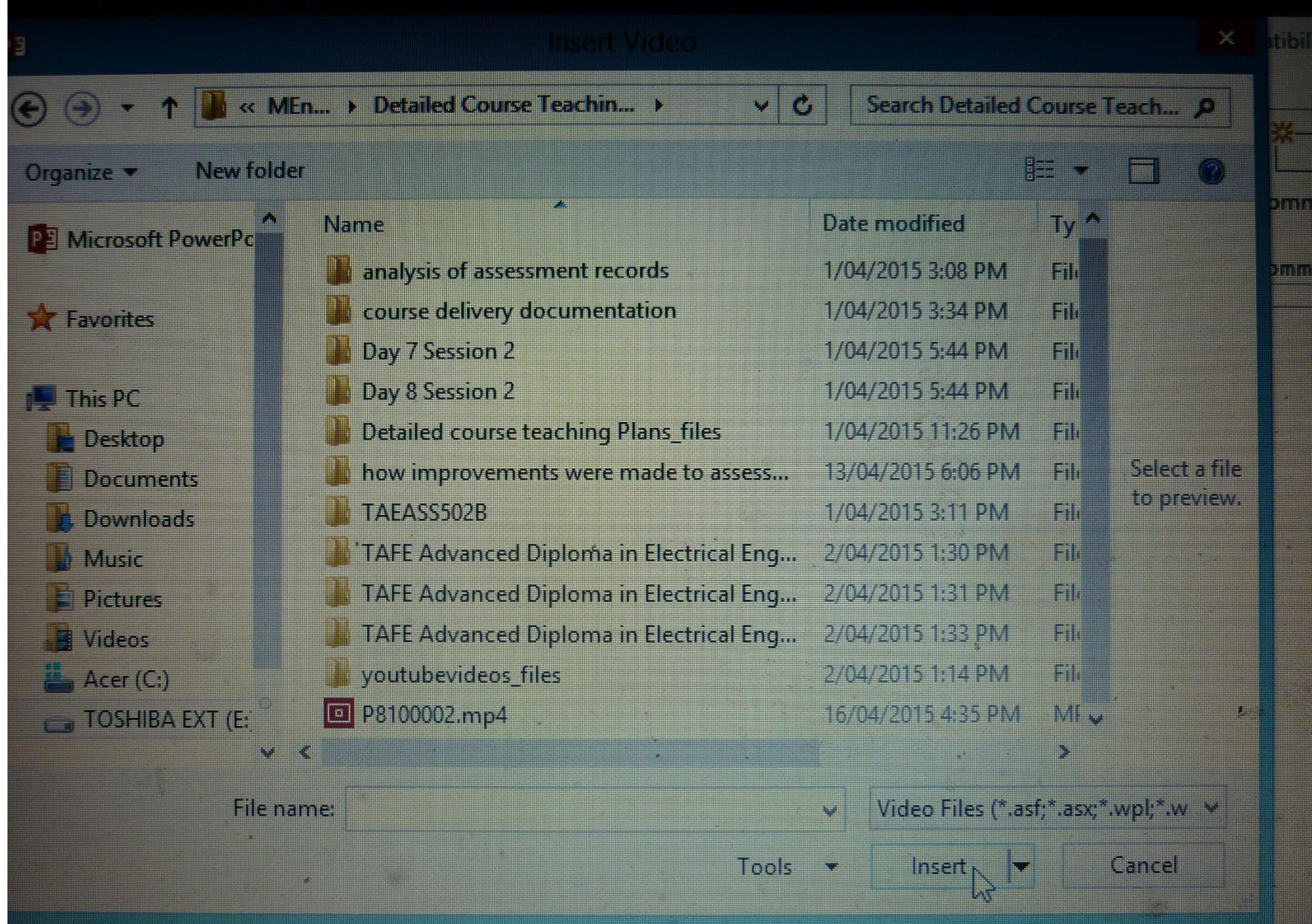
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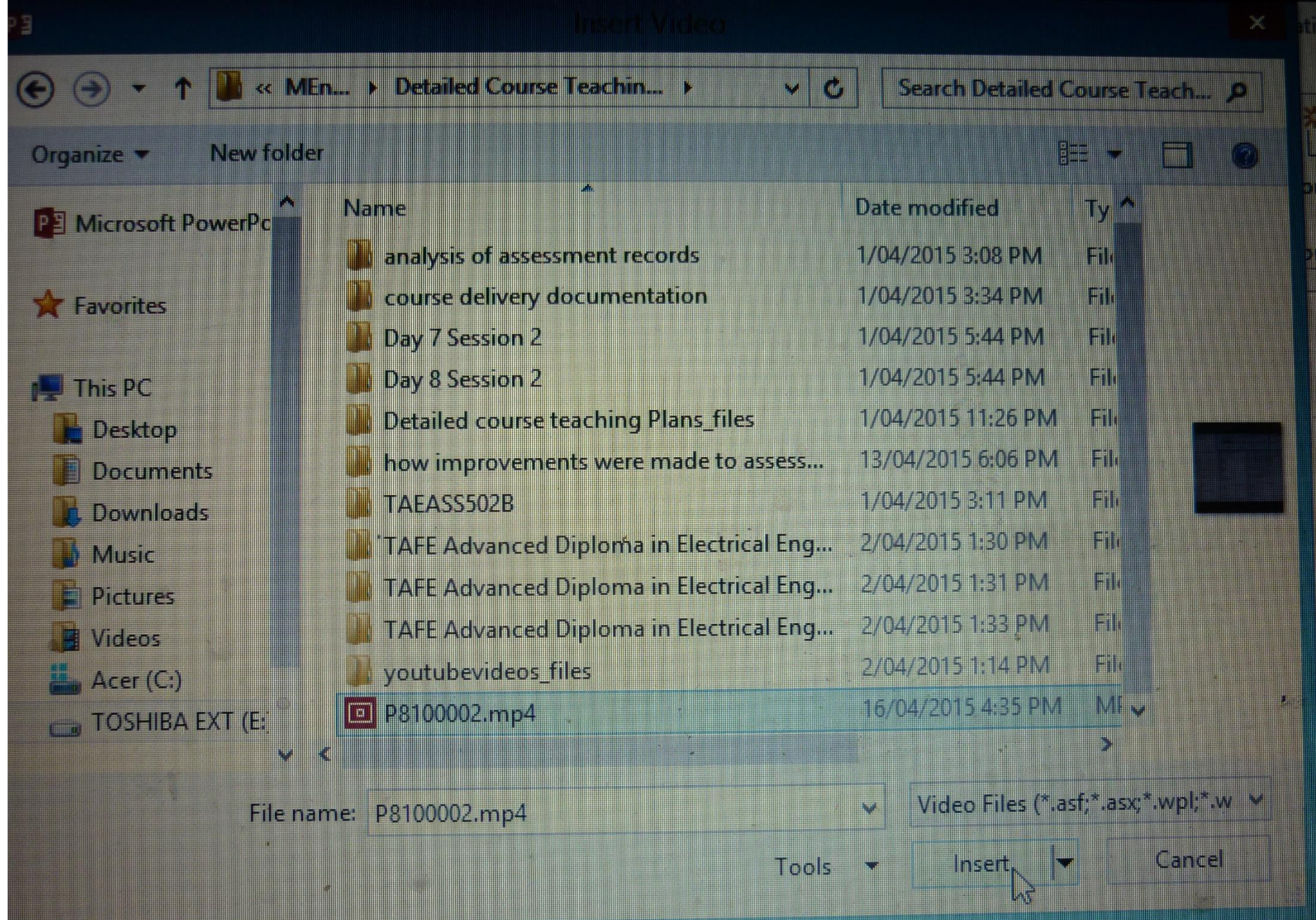




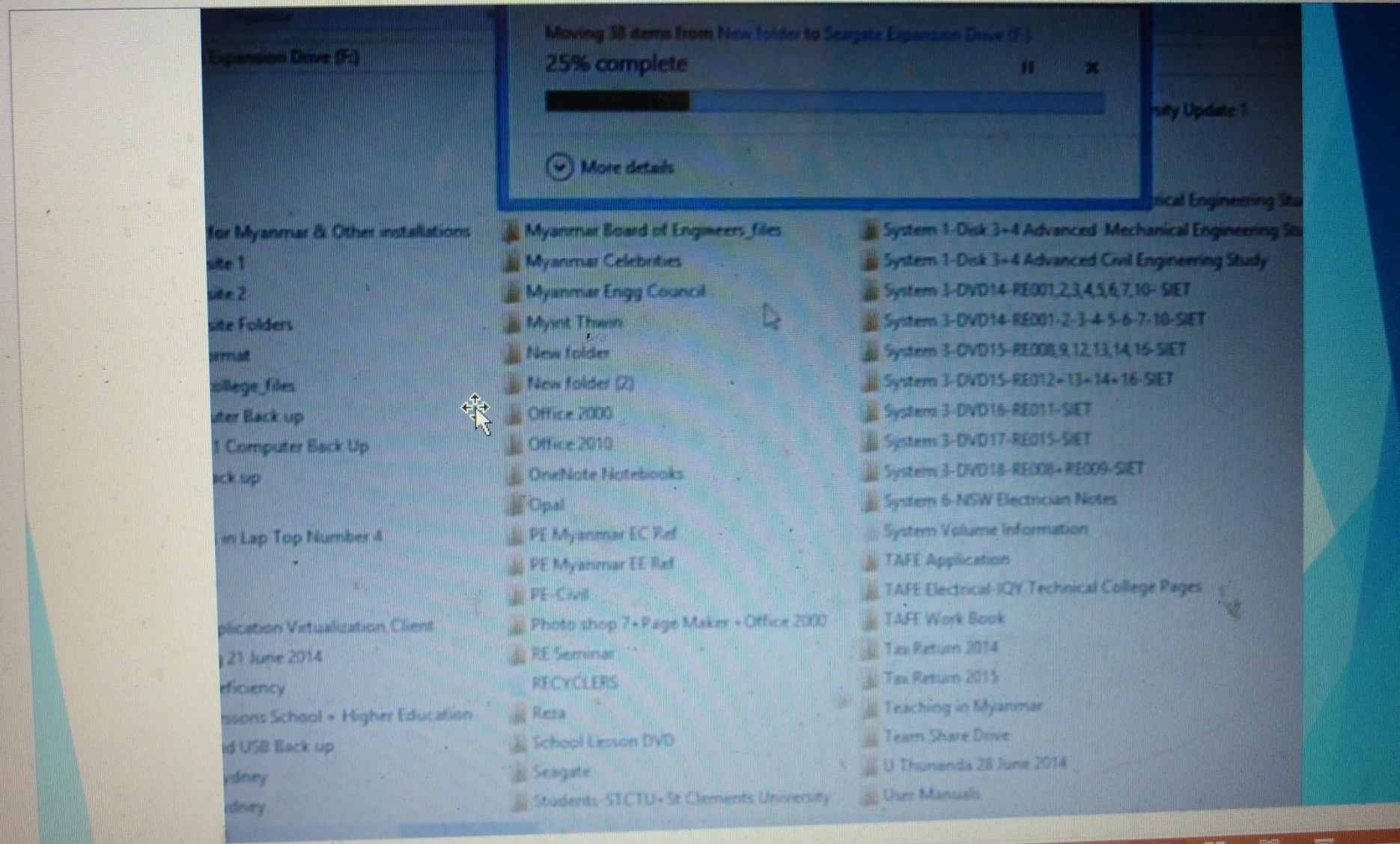
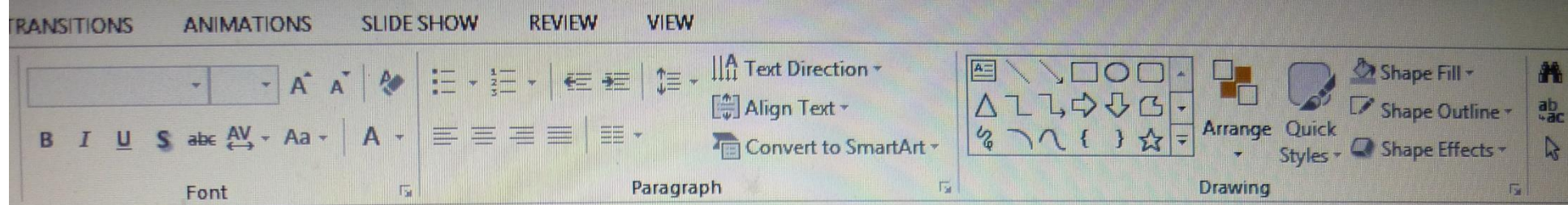
















### Rehearse Timings

Record Slide  
Show

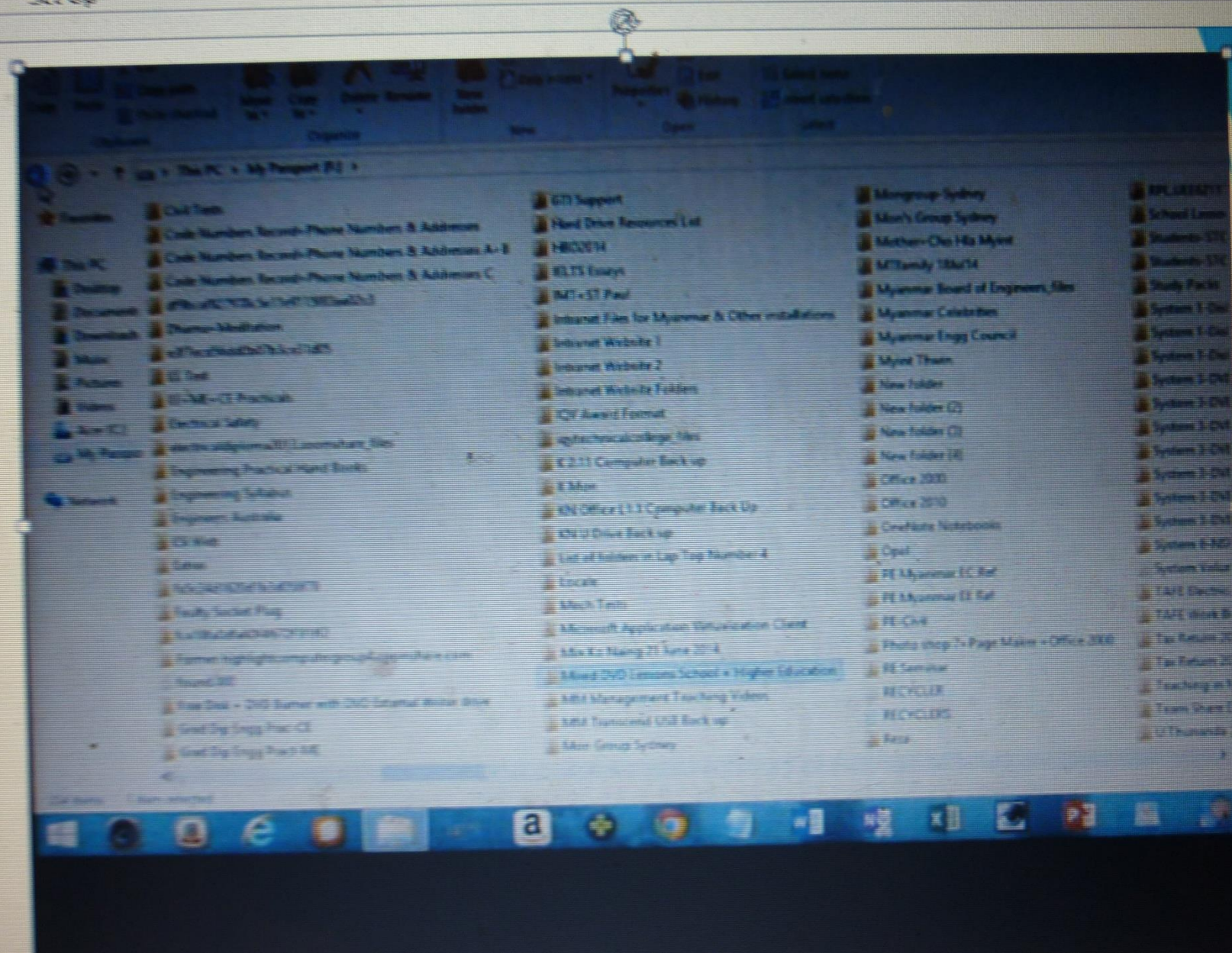
☒ Use Timings☒ Show Media Controls

张明

Monitor Automatic

☒ Use Presenter View

## Monitors









## Practice

Use of DVD recorder, Digital note takers to record the lessons and prepare the multimedia power point lectures, PDF-JPG format conversion softwares