EXPERIMENT 6	**Installation of CD/DVD Writer** **(a) Burning data/Audio/Video files in a blank CD/DVD**
Date:	**(b) Multi-Session Burning** **(b) Copy Protected Burning**

AIM

To study and perform different booting methods such as CD/DVD booting, Hard Disk booting, and Flash Disk (USB) booting, and to understand their operation.

REQUIREMENTS

i. Desktop computer
ii. CD/DVD writer (SATA type)
iii. SATA data cable
iv. SATA power cable
v. Blank CD-R / DVD-R
vi. Screwdriver
vii. Burning software (Windows built-in / Nero / ImgBurn)
viii. Data files (sample documents, audio, video)

PROCEDURE / PROGRAM

i) Installation of CD/DVD Writer

1. **Shut down the computer**
   → Remove power cable from socket
2. **Open the CPU cabinet**
   → Use screwdriver to remove side panel
3. **Locate the optical drive bay**
   → Rectangular slot in the front of the cabinet
4. **Insert the CD/DVD writer**
   → Slide it from front until it fits properly
5. **Fix the drive using screws**
   → Tighten on both sides
6. **Connect SATA data cable**
   → One end to DVD writer
   → Other end to motherboard SATA port
7. **Connect SATA power cable**
   → From SMPS to DVD writer
8. **Close the cabinet**
   → Connect power cable
9. **Power ON the computer**
10. **Check detection**
    - BIOS OR
    - This PC → CD/DVD Drive visible

ii a) Burning data/Audio/Video files in a blank CD/DVD

1. Open **This PC**
2. Right-click CD/DVD drive → *Burn files to disc*
3. Choose **"Like a USB flash drive"** or **"With a CD/DVD player"**
4. Select files (documents/images)
5. Click **Burn**
6. Wait until burning completes
7. Disc ejects automatically

b) Booting Multi-Session Burning

1. Insert blank CD/DVD
2. Burn **small amount of data**
3. Choose **"Allow files to be added later"**
4. Eject disc
5. Reinsert disc later
6. Add more files
7. Burn again

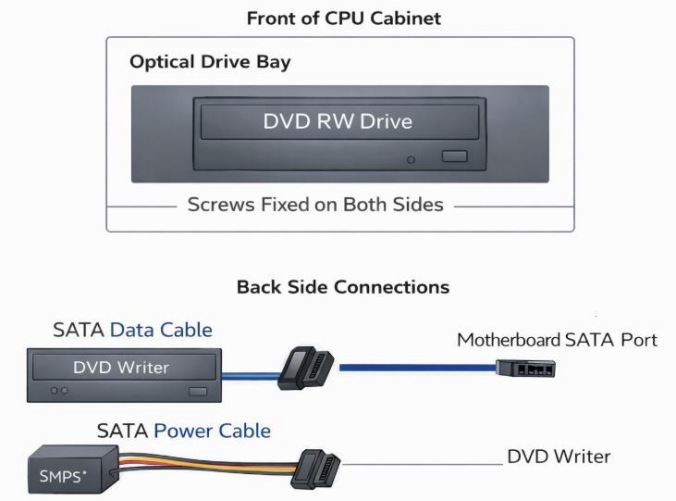
c) Copy Protected Burning

1. Insert a blank CD/DVD.
2. Open burning software (Nero / ImgBurn / Windows Disc Burner).
3. Select Data Disc.
4. Add the files to burn.
5. Enable disc protection / finalize disc option.
6. Click Burn to start writing.
7. Wait until the burning process completes and the disc ejects.
8. The disc ejects automatically after completion
9. Reinsert the disc and **check if files are protected** or cannot be modified/copied easily

Sample Output

i) Installation of CD/DVD Writer

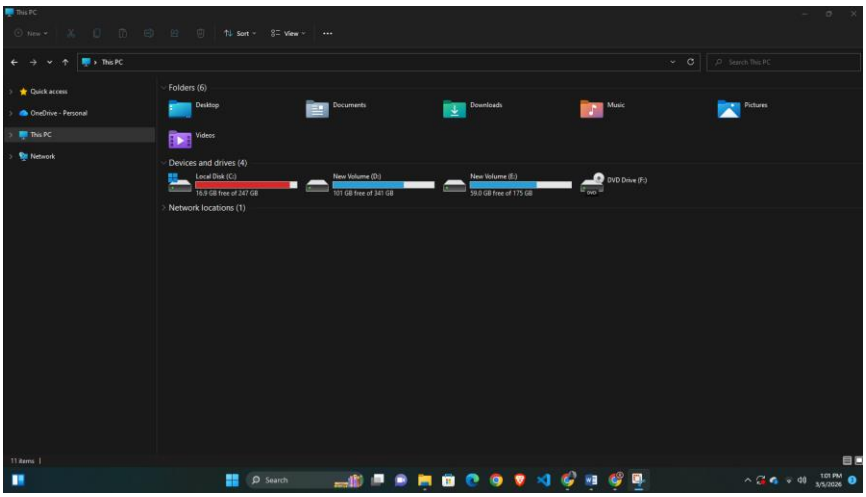
Hardware Installation inside CPU Cabinet



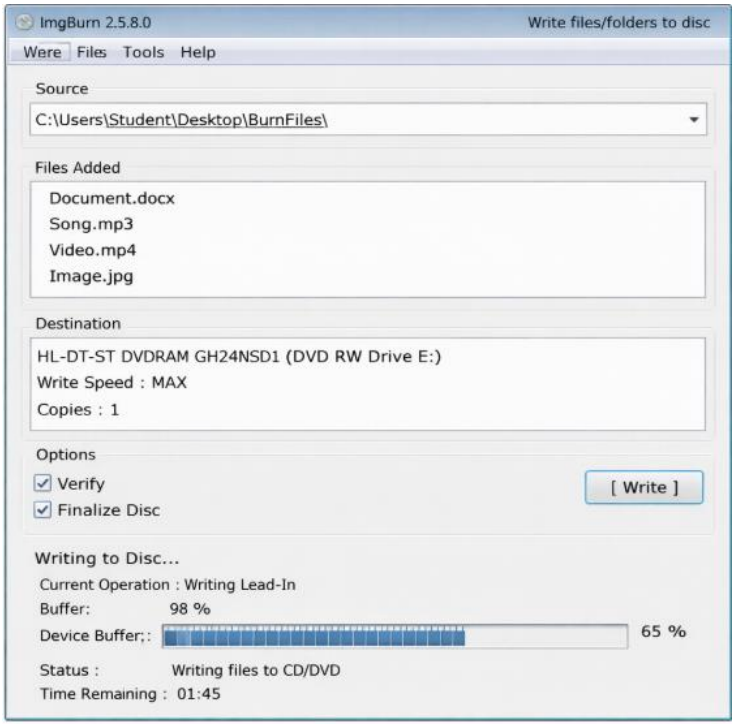
BIOS Detection After Power ON



Detection in Windows (This PC)

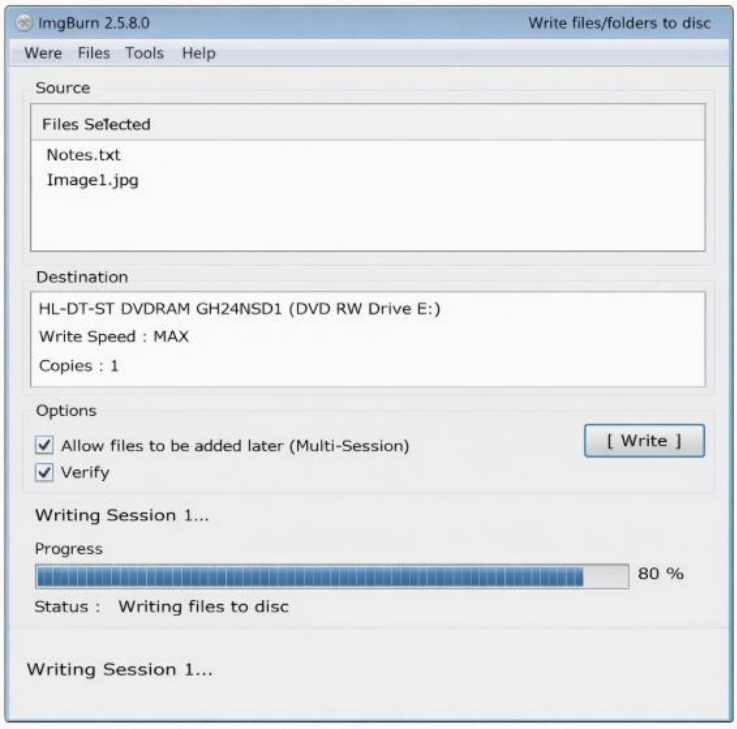


ii a) Burning data/Audio/Video files in a blank CD/DVD

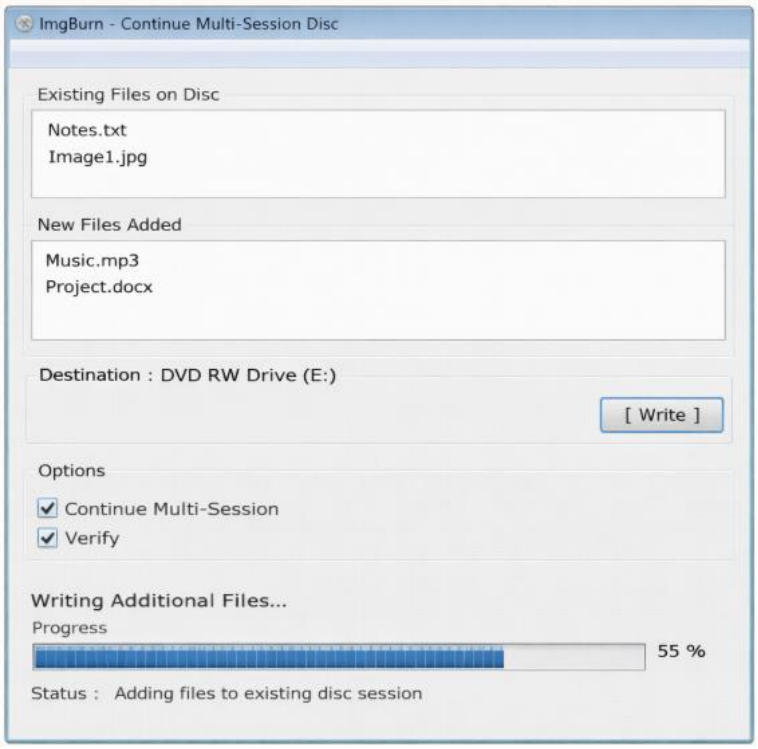


b) Booting Multi-Session Burning

First Session (Initial Burning)



Second Session (Adding More Files Later)



c) Copy Protected Burning


Nero Burning ROM
New Compilation : Data Disc
Files Added
ProjectReport.pdf
SoftwareSetup.exe
VideoLecture.mp4
Options
Finalize Disc (No further writing possible)
Prevent modification of files
[Burn Disc]
Burning Process
Writing Lead-In...
Writing Data...
Finalizing Disc...
Burn Process Completed Successfully
Disc is Write Protected

RESULT

The experiment to perform the CD/DVD writer was installed successfully and data, audio, and video files were burned onto blank CD/DVDs. Multi-session burning was performed and copy-protected disc behavior was studied, and output was verified.