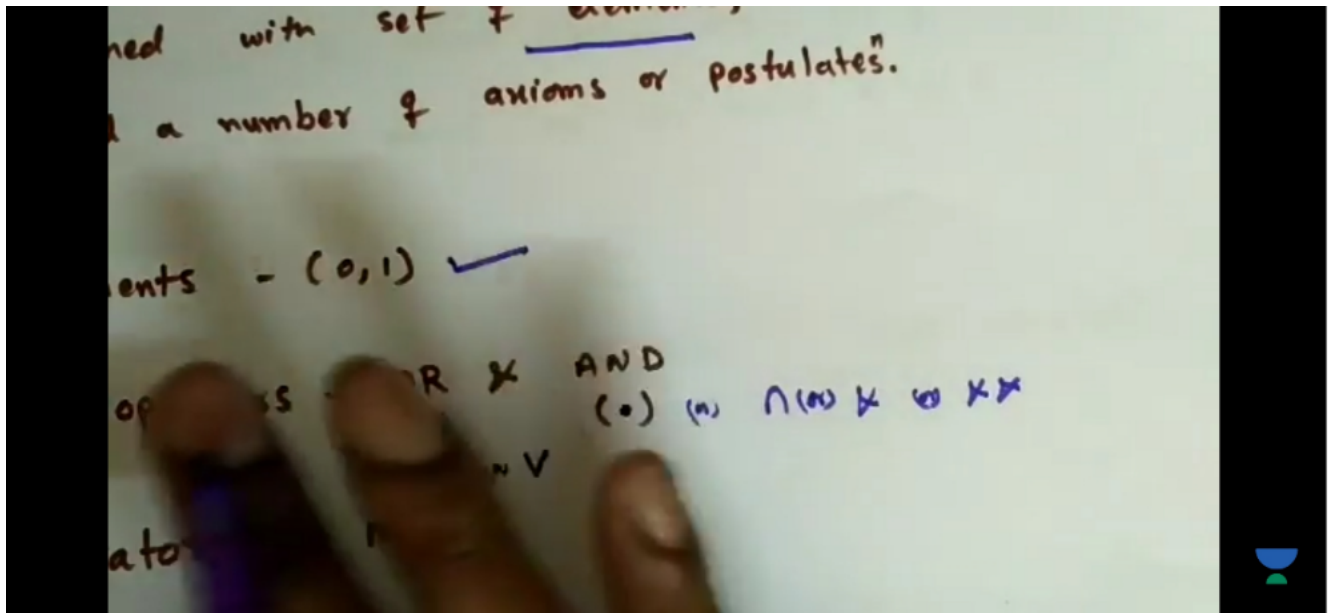


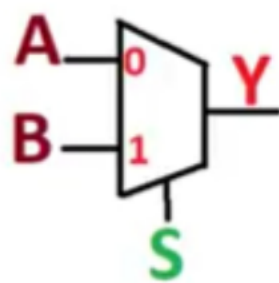
## DAILY ASSESSMENT FORMAT

|                    |   |                     |                  |
|--------------------|---|---------------------|------------------|
| Date:              | 28-05-2020  | Name:               | Jagadeesha Hegde |
| Course:            | Logic Design  | USN:                | 4AL17EC036       |
| Topic:             | Boolean equations for digital circuits. Combinational circuits: Conversion of MUX and Decoders to logic gates.<br><br>Design of 7 segment decoder with common anode display | Semester & Section: | 6th A-sec        |
| Github Repository: | Jagadeesha-036  |                     |                  |

### FORENOON SESSION DETAILS

Image of session





| SELECTION (S) | OUTPUT(Y) |
|---------------|-----------|
| 0             | A         |
| 1             | B         |



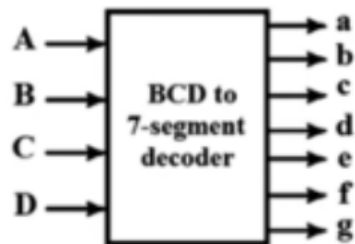
$$Y = A\bar{S} + BS$$

$$2^n - 1$$

$$2^n = \text{inputs}$$

$n$  = selection lines

### BCD to 7-segment decoder



| A | B | C | D | a | b | c | d | e | f | g |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 |
| 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 |
| 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |

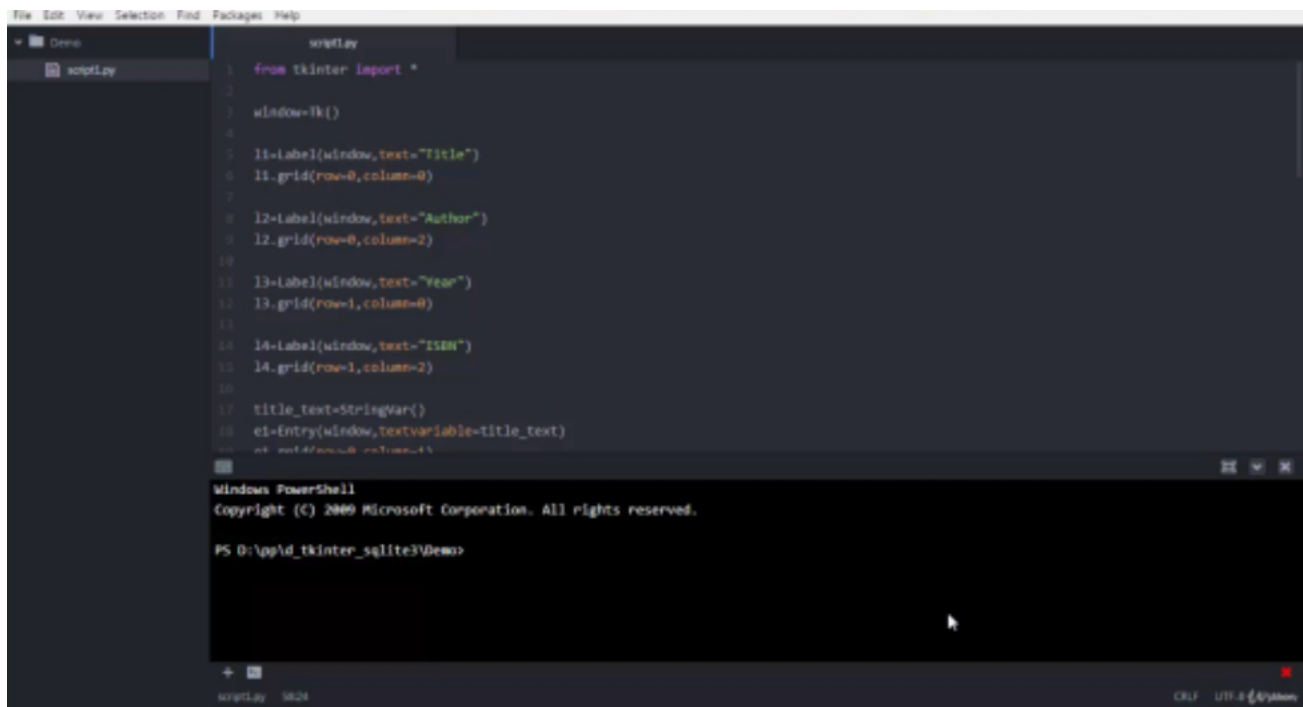
**Report – Report can be typed or hand written for up to two pages.**

**Boolean algebra is used to simplify Boolean expressions which represent combinational logic circuits. It reduces the original expression to an equivalent expression that has fewer terms which means that less logic gates are needed to implement the combinational logic circuit.**

|         |   |                     |                  |
|---------|---|---------------------|------------------|
| Date:   | 28-05-2020  | Name:               | Jagadeesha Hegde |
| Course: | The Python Mega Course                              | USN:                | 4AL17EC036       |
| Topic:  | Application 5: Build a Desktop Database Application | Semester & Section: | 6th A-sec        |

#### AFTERNOON SESSION DETAILS

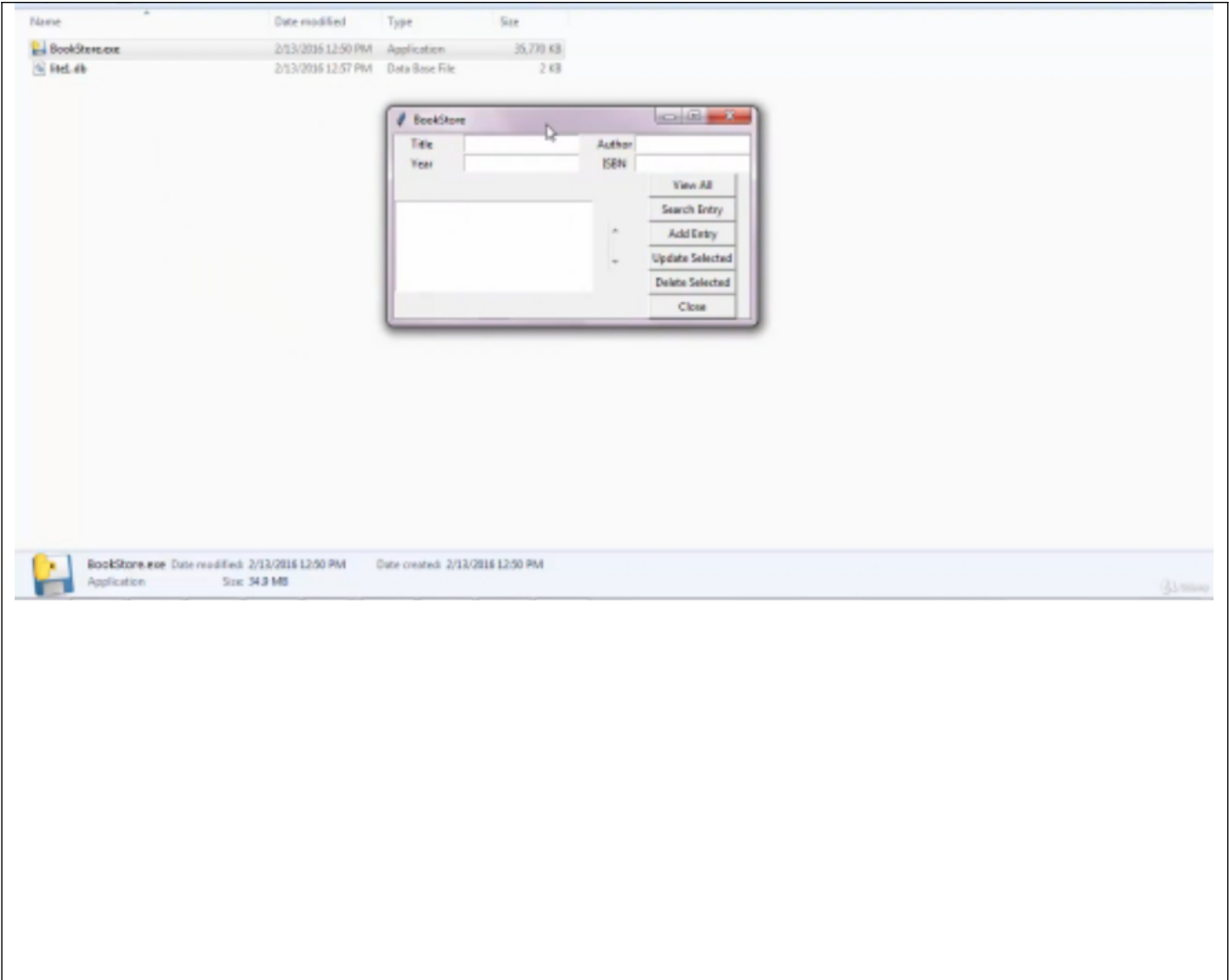
##### Image of session



The image shows a screenshot of a code editor window with a file named 'script.py' open. The code is a Python script using Tkinter to create a simple GUI. Below the code editor, there is a PowerShell terminal window showing the command prompt at 'PS D:\app\id\_tkinter\_sqlite3\Demo>'.

```
File Edit View Selection Find Packages Help
+ Deep
+ script.py
1 from tkinter import *
2
3 window=Tk()
4
5 l1=Label(window,text="Title")
6 l1.grid(row=0,column=0)
7
8 l2=Label(window,text="Author")
9 l2.grid(row=0,column=2)
10
11 l3=Label(window,text="Page")
12 l3.grid(row=1,column=0)
13
14 l4=Label(window,text="ISBN")
15 l4.grid(row=1,column=2)
16
17 title_text=StringVar()
18 e1=Entry(window,textvariable=title_text)
19
20 if __name__=="__main__":
21     mainloop()
```

Windows PowerShell  
Copyright (C) 2009 Microsoft Corporation. All rights reserved.  
PS D:\app\id\_tkinter\_sqlite3\Demo>



Report – Report can be typed or hand written for up to two pages.

### Application 5: Build a Desktop Database Application

l1 = Label (window, text="title")

l1.grid (column=0, row=0)

l2 = Label (window, text="Author")

l2.grid label (row =0, column= 2)

bt = Button (window, text="view all", width = 12)

