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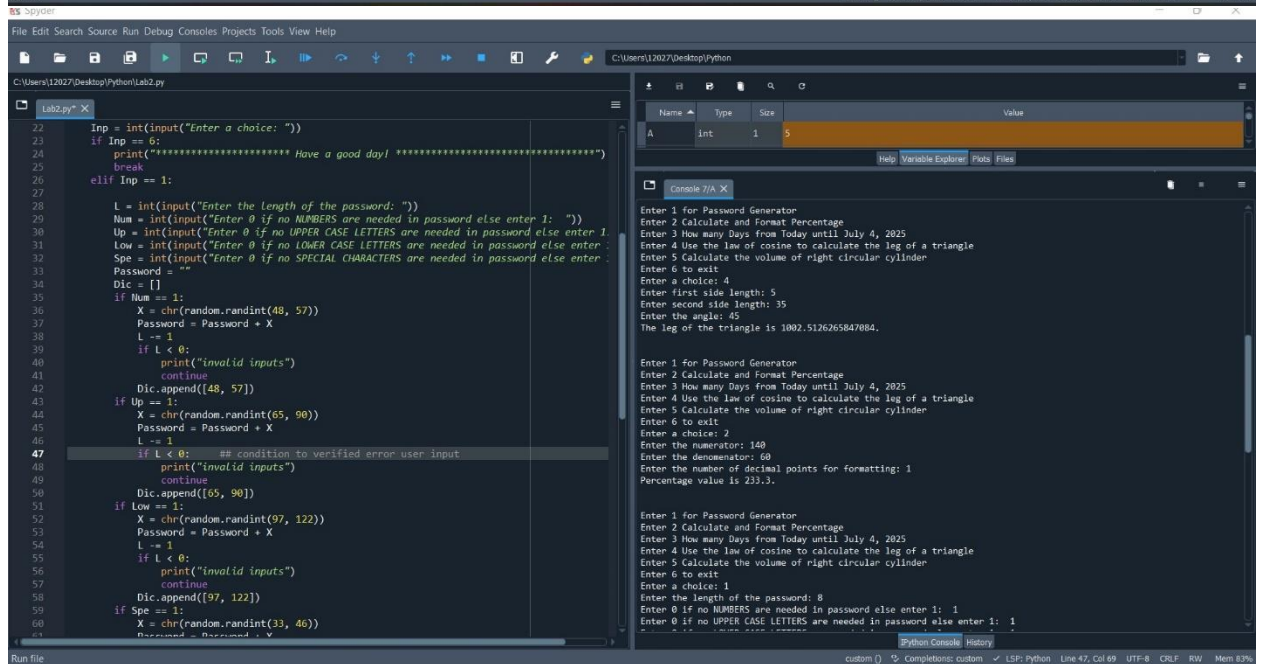
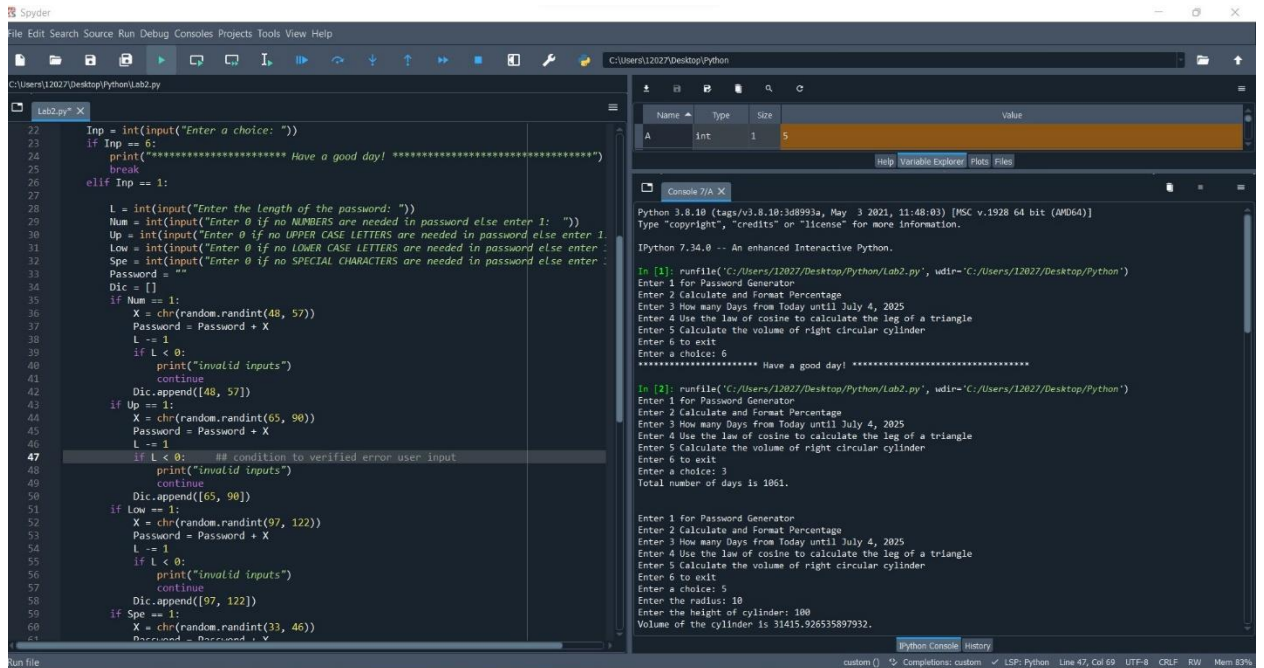
@School: UMGC

@Course: SDEV 300 Building Secure Python Applications

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Labs Run Tests

- a. Expected Result



```
Console 7/A X

Enter 1 for Password Generator
Enter 2 Calculate and Format Percentage
Enter 3 How many Days from Today until July 4, 2025
Enter 4 Use the law of cosine to calculate the leg of a triangle
Enter 5 Calculate the volume of right circular cylinder
Enter 6 to exit
Enter a choice: 2
Enter the numerator: 140
Enter the denominator: 60
Enter the number of decimal points for formatting: 1
Percentage value is 233.3.

Enter 1 for Password Generator
Enter 2 Calculate and Format Percentage
Enter 3 How many Days from Today until July 4, 2025
Enter 4 Use the law of cosine to calculate the leg of a triangle
Enter 5 Calculate the volume of right circular cylinder
Enter 6 to exit
Enter a choice: 1
Enter the length of the password: 8
Enter 0 if no NUMBERS are needed in password else enter 1: 1
Enter 0 if no UPPER CASE LETTERS are needed in password else enter 1: 1
Enter 0 if no LOWER CASE LETTERS are needed in password else enter 1: 1
Enter 0 if no SPECIAL CHARACTERS are needed in password else enter 1: 1
Generated password is C8&fu4D8.

Enter 1 for Password Generator
Enter 2 Calculate and Format Percentage
Enter 3 How many Days from Today until July 4, 2025
Enter 4 Use the law of cosine to calculate the leg of a triangle
Enter 5 Calculate the volume of right circular cylinder
Enter 6 to exit
Enter a choice: 6
***** Have a good day! *****
```

Error Run

As shown below the program terminates once the user input "6". That's it passed the user error inputs!

Python IDE interface showing a script and its execution.

File Explorer: C:\Users\12027\Desktop\Python

Variable Explorer:

Name	Type	Size	Value
i	int	1	0

Console 10/A X

```
Python 3.8.10 (tags/v3.8.10:3d8993a, May 3 2021, 11:48:03) [MSC v.1928 64 bit (AMD64)]
Type "copyright", "credits" or "license()" for more information.

IPython 7.34.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/12027/Desktop/Python/Lab2.py', wdir='C:/Users/12027/Desktop/Python')
Enter 1 for Password Generator
Enter 2 Calculate and Format Percentage
Enter 3 How many Days from Today until July 4, 2025
Enter 4 Use the law of cosine to calculate the leg of a triangle
Enter 5 Calculate the volume of right circular cylinder
Enter 6 to exit
Enter a choice: 6
***** Have a good day! *****

In [2]:
```

Script Content (Left Panel):

```
...triangle")
...
user input
*****")
...
d else enter 1: ")
in password else enter 1.
in password else enter :
in password else enter :
```