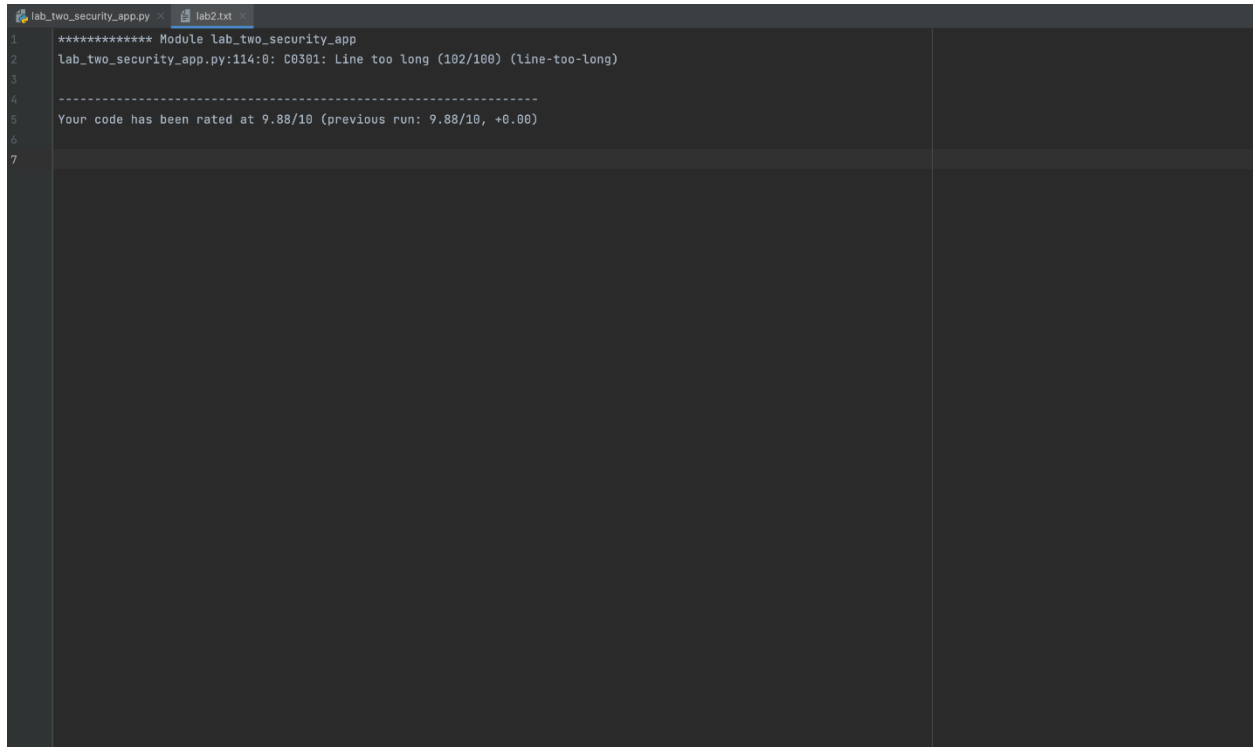


Joel Goode SDEV 393 LAB 2 Test Cases

Test #	Input	Expected	Actual	PASS / FAIL
1	1,9,y,y,y,y	9 character Random password with upper, lower case, numbers, and special characters	Y.psfF4Ll	PASS
1a	1,12,ny,n,y	12 character random password with no upper case letter, with uppercase and no numbers and with special characters	 bw/_lqd(g)}	PASS
1b	1,0	ERROR TO TRY AGAIN	Please enter a password length greater than zero	PASS
2	2,23,12,3	Percentage of 23/12 =191.667%	Calculated percentage is: 191.667%	PASS
3	3	Number of days from the date the program was run to July 4th 2025	How many days until 4th of July 2025... 1040 days	PASS
4	4,20,20,5	Side c = 23.9	Measurement of side c is: 23.9374184071765	PASS
5	5,2,7	Volume = 87.9	Volume of the cylinder is: 87.96459	PASS
6	6	Exit thank you message	Thank you for using this calculations and password application come back soon!	PASS

Joel Goode SDEV 393 LAB 2 Test Cases

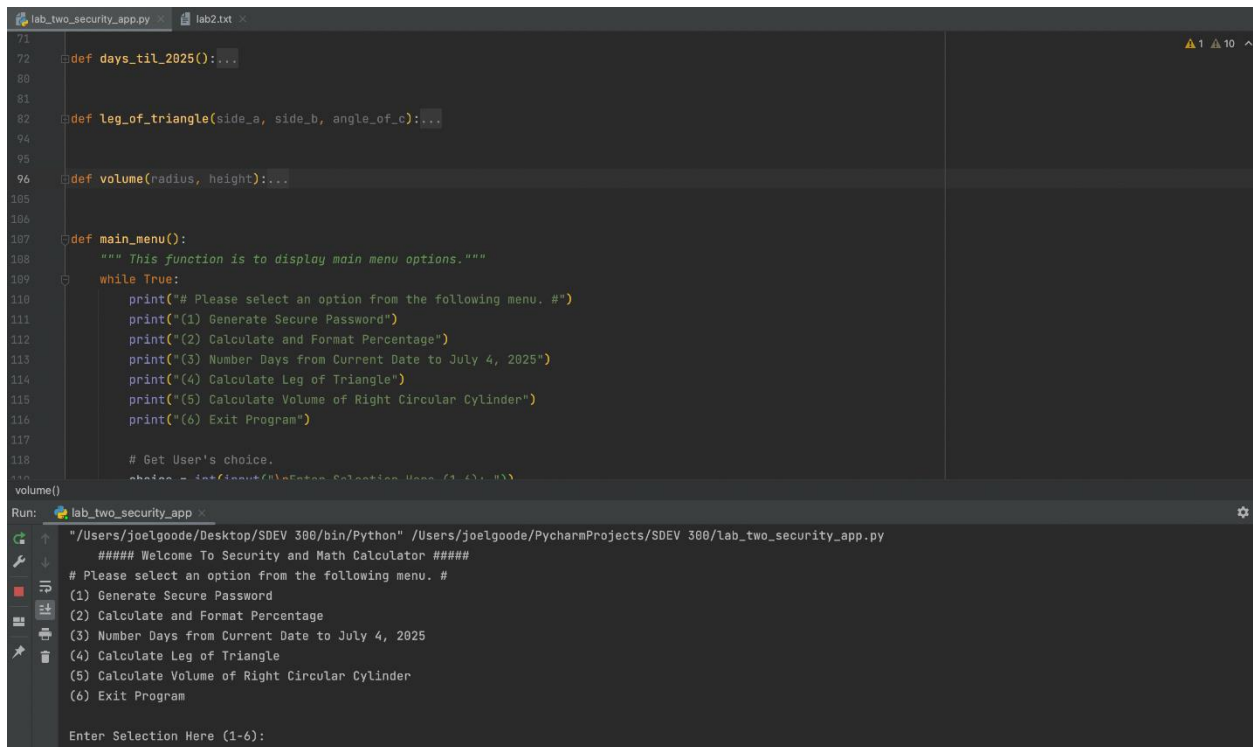
PYLINT RESULTS:



```
lab_two_security_app.py x lab2.txt x
1 ***** Module lab_two_security_app
2 lab_two_security_app.py:114:0: C0301: Line too long (102/100) (line-too-long)
3
4 -----
5 Your code has been rated at 9.88/10 (previous run: 9.88/10, +0.00)
6
7
```

9.88/10 – Due to a line being too long. I deleted and rewrote the code. However, every time the flag re appeared. I even tried to use `#pylint: disable line-too-long`. It did not work.

Main Menu:



```
lab_two_security_app.py x lab2.txt x
71
72 def days_til_2025():...
80
81
82 def leg_of_triangle(side_a, side_b, angle_of_c):...
94
95
96 def volume(radius, height):...
105
106
107 def main_menu():
108     """ This function is to display main menu options."""
109     while True:
110         print("# Please select an option from the following menu. #")
111         print("(1) Generate Secure Password")
112         print("(2) Calculate and Format Percentage")
113         print("(3) Number Days from Current Date to July 4, 2025")
114         print("(4) Calculate Leg of Triangle")
115         print("(5) Calculate Volume of Right Circular Cylinder")
116         print("(6) Exit Program")
117
118         # Get User's choice.
119         choice = int(input("Enter Selection Here (1-6): "))
120     volume()
```

Run: lab_two_security_app x

```
"/Users/JoelGoode/Desktop/SDEV 380/bin/Python" /Users/JoelGoode/PycharmProjects/SDEV 380/lab_two_security_app.py
##### Welcome To Security and Math Calculator #####
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6):
```

Joel Goode SDEV 393 LAB 2 Test Cases

Test Case #1:

```
lab_two_security_app x
"/Users/joelgoode/Desktop/SDEV 393/bin/Python" /Users/joelgoode/PycharmProjects/SDEV 393/lab_two_security_app.py
##### Welcome To Security and Math Calculator #####
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6): 1
Let's Get Started!...

Enter Desired Password Length: 9
Would you like your password to include upper case letters? (Y) yes (N) no?: y
Would you like your password to include lower case letters? (Y) yes (N) no?: y
Would you like your password to include numbers? (Y) yes (N) no?: y
Would you like your password to include special characters? (Y) yes (N) no?: y
****Your generated password is: Y.PsFF4LL
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6):
```

Test Case #1a:

```
lab_two_security_app x
"/Users/joelgoode/Desktop/SDEV 393/bin/Python" /Users/joelgoode/PycharmProjects/SDEV 393/lab_two_security_app.py
##### Welcome To Security and Math Calculator #####
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6): 1
Let's Get Started!...

Enter Desired Password Length: 12
Would you like your password to include upper case letters? (Y) yes (N) no?: n
Would you like your password to include lower case letters? (Y) yes (N) no?: y
Would you like your password to include numbers? (Y) yes (N) no?: n
Would you like your password to include special characters? (Y) yes (N) no?: y
****Your generated password is: |bw/_lqd(g)}
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program
```

Joel Goode SDEV 393 LAB 2 Test Cases

Test Case #1b:

```
lab_two_security_app x
"/Users/joelgoode/Desktop/SDEV 393/bin/Python" /Users/joelgoode/PycharmProjects/SDEV 393/lab_two_security_app.py
##### Welcome To Security and Math Calculator #####
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6): 1
Let's Get Started!...

Enter Desired Password Length: 0
Please enter a password length greater than zero! Try Again
```

Test Case #2:

```
lab_two_security_app x
"/Users/joelgoode/Desktop/SDEV 393/bin/Python" /Users/joelgoode/PycharmProjects/SDEV 393/lab_two_security_app.py
##### Welcome To Security and Math Calculator #####
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6): 2
Enter numerator: 23
Enter denominator: 12
Enter number of decimals places: 3
The calculated percentage is: 191.667%
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6): |
```

Joel Goode SDEV 393 LAB 2 Test Cases

Test Case #3:

```
lab_two_security_app x
"/Users/joelgoode/Desktop/SDEV 393/bin/Python" /Users/joelgoode/PycharmProjects/SDEV 393/lab_two_security_app.py
##### Welcome To Security and Math Calculator #####
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6): 3
    Let's see how many days until the 4th of July, 2025...

1840 days
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6): |
```

Test Case #4:

```
lab_two_security_app x
"/Users/joelgoode/Desktop/SDEV 393/bin/Python" /Users/joelgoode/PycharmProjects/SDEV 393/lab_two_security_app.py
##### Welcome To Security and Math Calculator #####
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6): 4
    Okay, Enter the triangle sides...

Enter Side a: 20
Enter side b: 20
Enter angle C (radians): 5
Measurement of side c is: 23.93741840717165
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6):
```

Joel Goode SDEV 393 LAB 2 Test Cases

Test Case #5:

```
lab_two_security_app x
"/Users/joelgoode/Desktop/SDEV 393/bin/Python" /Users/joelgoode/PycharmProjects/SDEV 393/Lab_two_security_app.py
##### Welcome To Security and Math Calculator #####
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6): 5
Enter the radius of the cylinder: 3
Enter the height of the cylinder: 7
The volume of the cylinder is: 87.96459430851421
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6):
```

Test Case #6:

```
lab_two_security_app x
"/Users/joelgoode/Desktop/SDEV 393/bin/Python" /Users/joelgoode/PycharmProjects/SDEV 393/Lab_two_security_app.py
##### Welcome To Security and Math Calculator #####
# Please select an option from the following menu. #
(1) Generate Secure Password
(2) Calculate and Format Percentage
(3) Number Days from Current Date to July 4, 2025
(4) Calculate Leg of Triangle
(5) Calculate Volume of Right Circular Cylinder
(6) Exit Program

Enter Selection Here (1-6): 6

Thank you for using this calculations and password application!           Come back soon!

Process finished with exit code 0
|
```