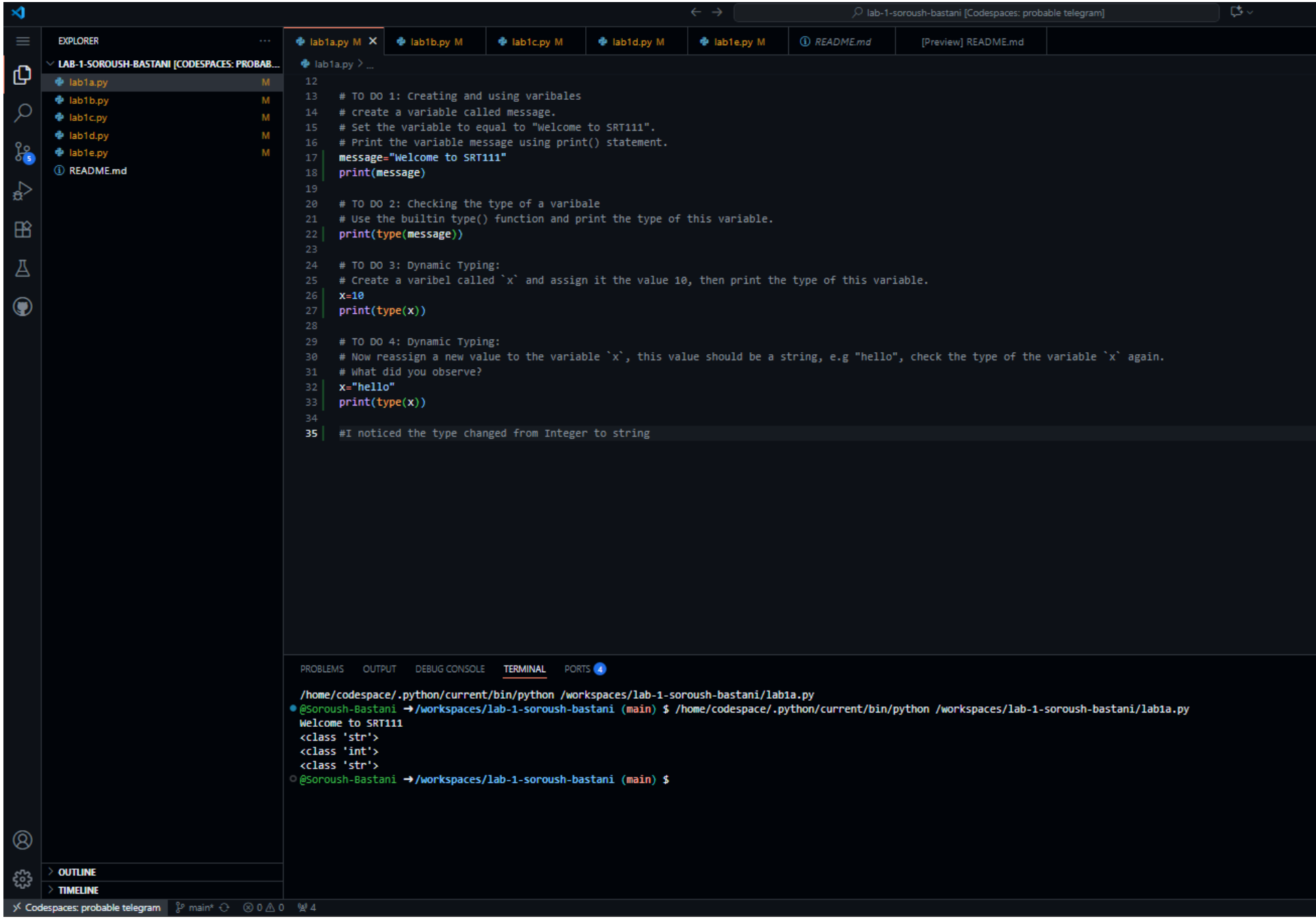
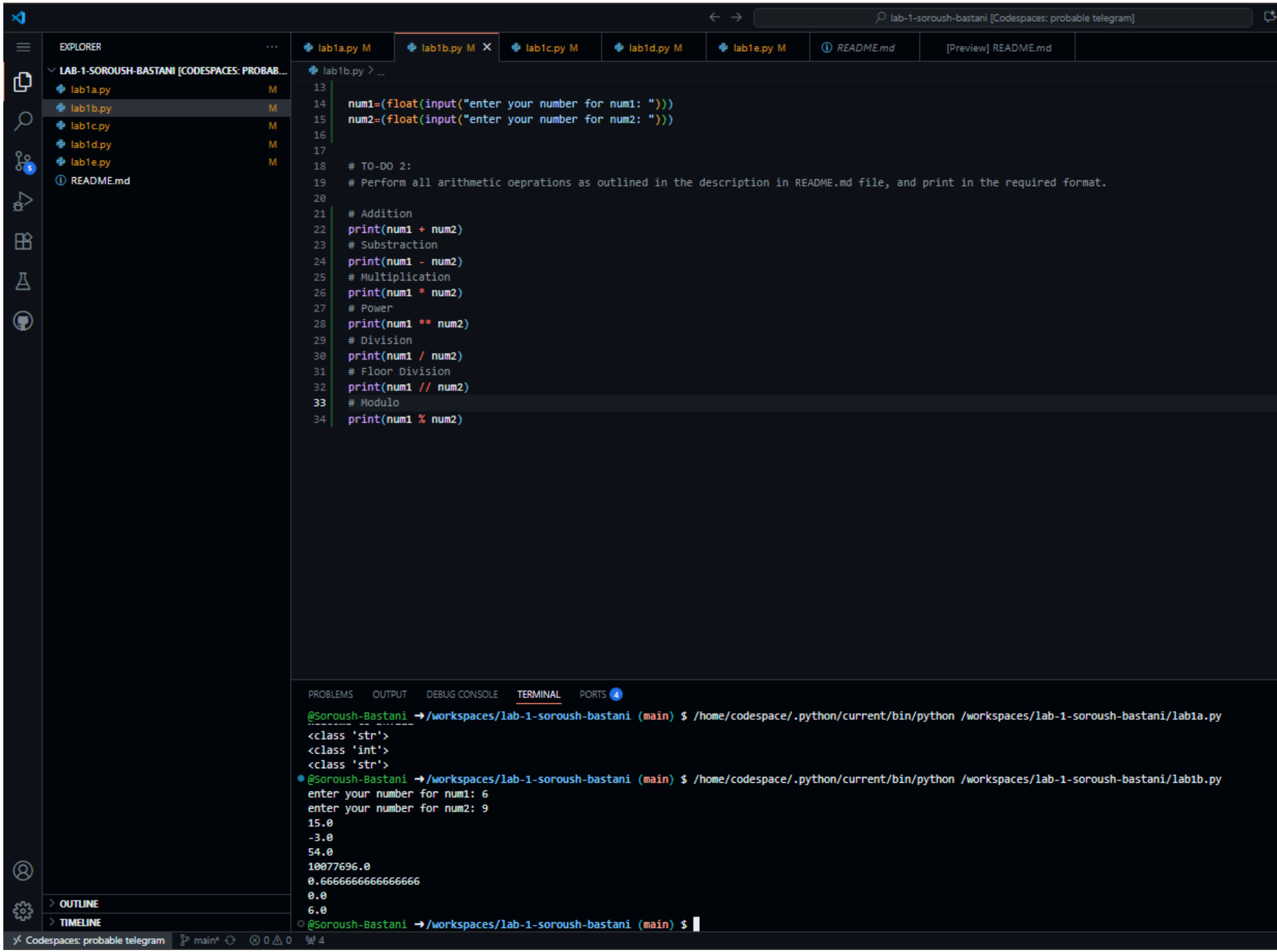
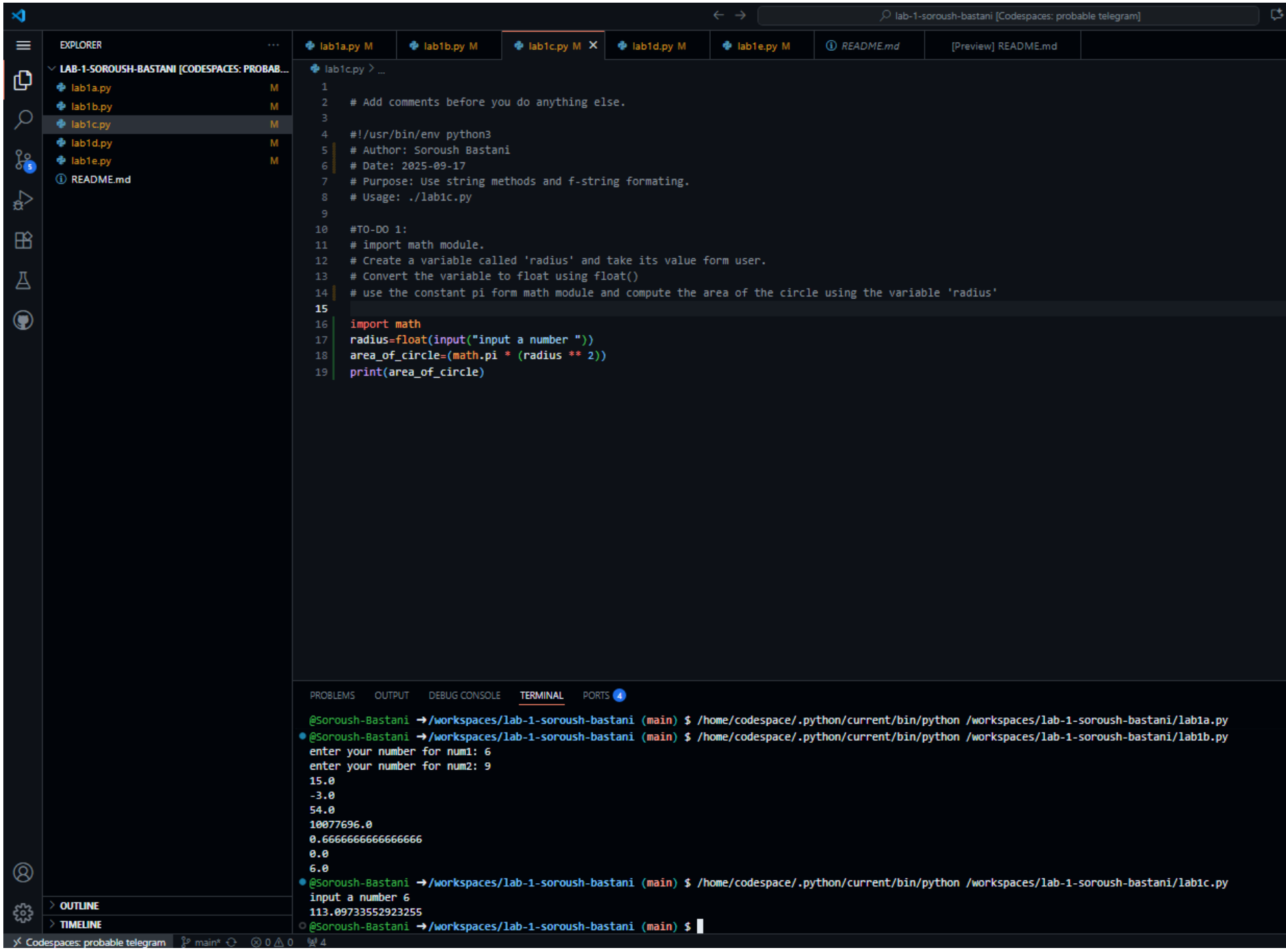
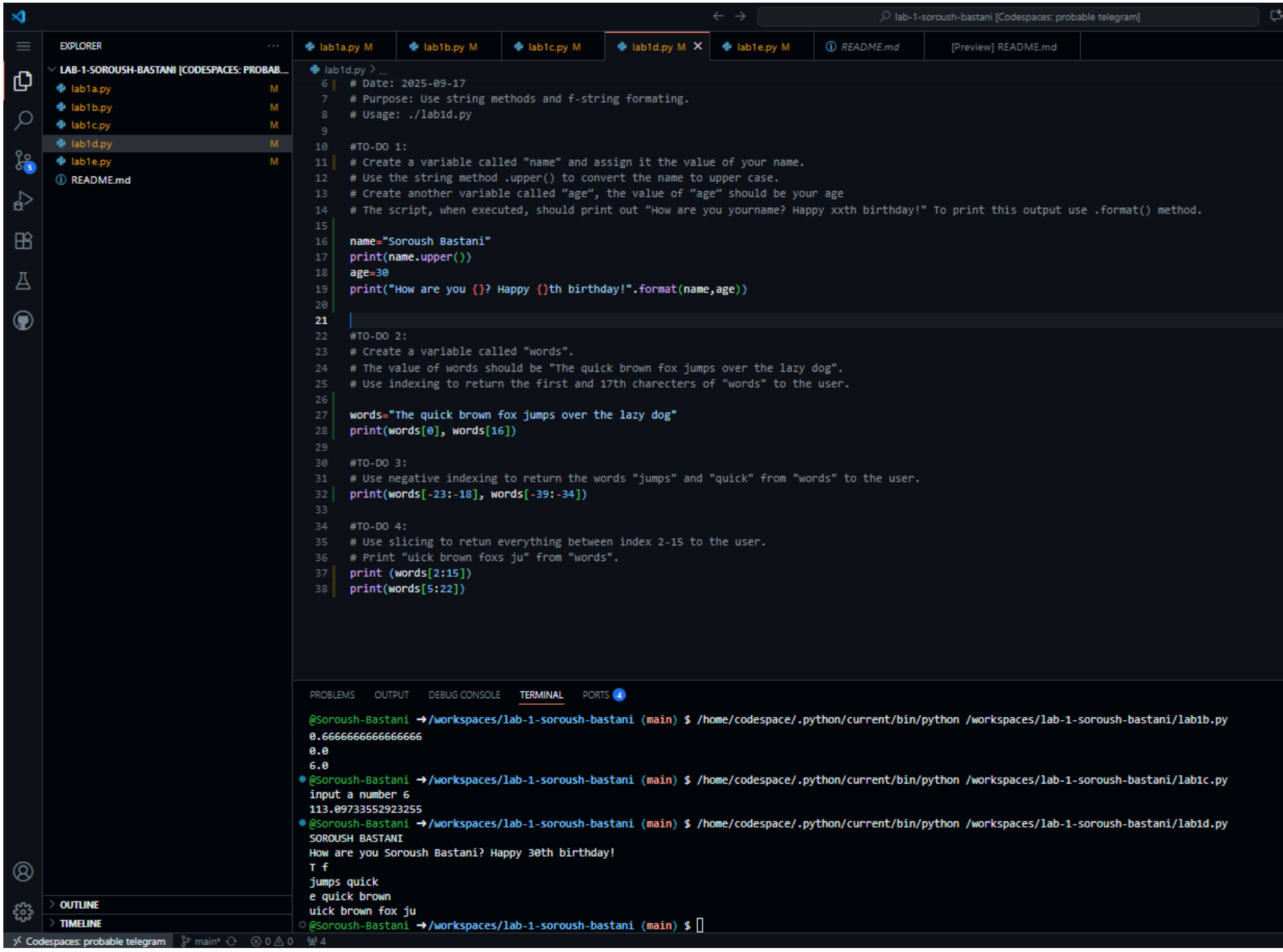
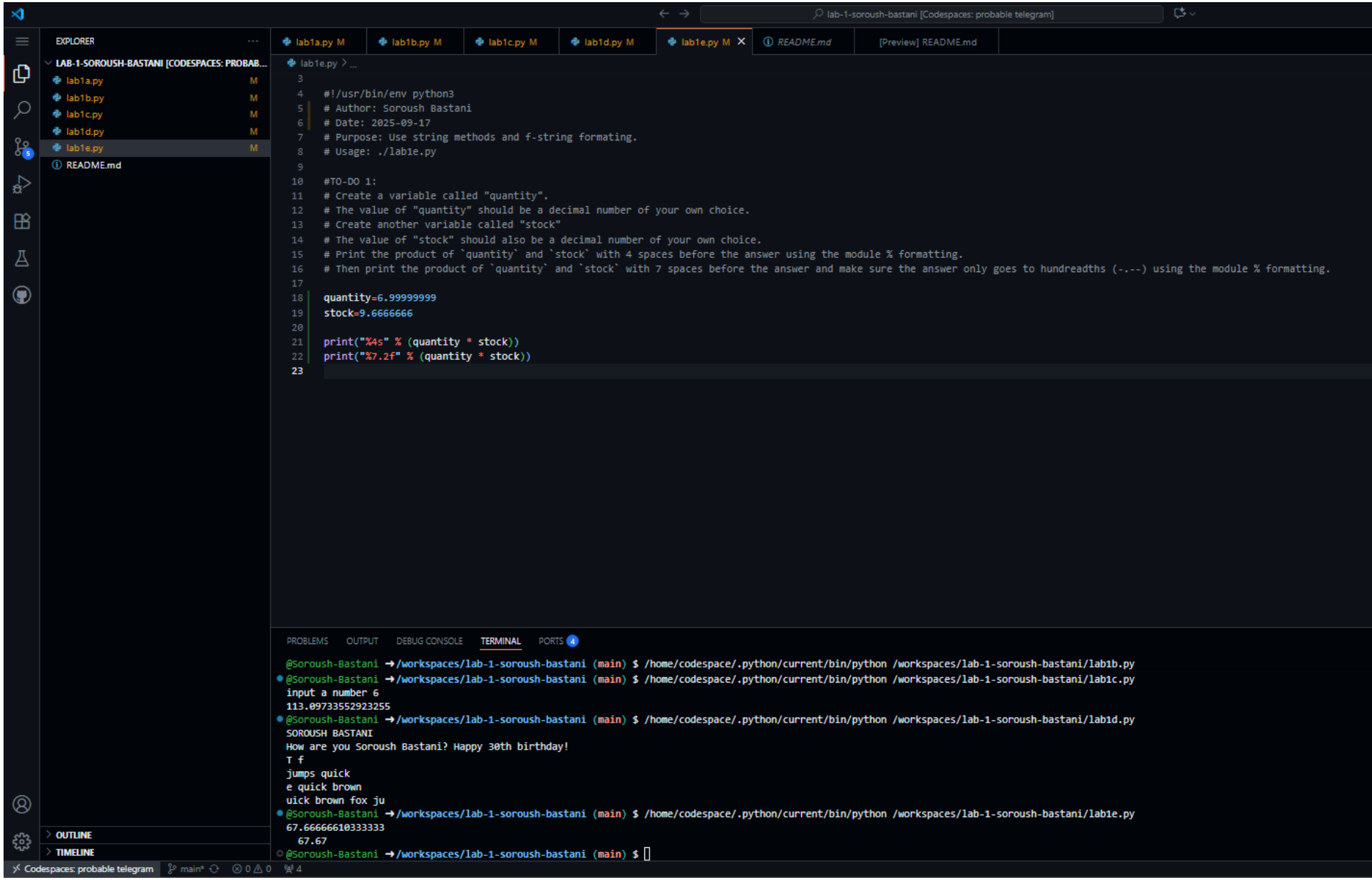

lab-1-soroush-bastani [Codespaces: probable telegram]
EXPLORER
LAB-1-SOROUSH-BASTANI [CODESPACES: PROBAB...
lab1a.py M
lab1b.py M
lab1c.py M
lab1d.py M
lab1e.py M
README.md
lab1a.py M
lab1b.py M
lab1c.py M
lab1d.py M
lab1e.py M
README.md
[Preview] README.md
lab1a.py > ...
12
13 # TO DO 1: Creating and using varibales
14 # create a variable called message.
15 # Set the variable to equal to "Welcome to SRT111".
16 # Print the variable message using print() statement.
17 message="Welcome to SRT111"
18 print(message)
19
20 # TO DO 2: Checking the type of a varibale
21 # Use the builtin type() function and print the type of this variable.
22 print(type(message))
23
24 # TO DO 3: Dynamic Typing:
25 # Create a varibel called `x` and assign it the value 10, then print the type of this variable.
26 x=10
27 print(type(x))
28
29 # TO DO 4: Dynamic Typing:
30 # Now reassign a new value to the variable `x`, this value should be a string, e.g "hello", check the type of the variable `x` again.
31 # What did you observe?
32 x="hello"
33 print(type(x))
34
35 #I noticed the type changed from Integer to string
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS 4
/home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1a.py
@Soroush-Bastani ➜ /workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1a.py
Welcome to SRT111
<class 'str'>
<class 'int'>
<class 'str'>
@Soroush-Bastani ➜ /workspaces/lab-1-soroush-bastani (main) $
OUTLINE
TIMELINE
Codespaces: probable telegram
main*
0 0
4


lab-1-soroush-bastani [Codespaces: probable telegram]
EXPLORER
LAB-1-SOROUSH-BASTANI [CODESPACES: PROBAB...
lab1a.py M
lab1b.py M
lab1c.py M
lab1d.py M
lab1e.py M
README.md
lab1a.py M
lab1b.py M
lab1c.py M
lab1d.py M
lab1e.py M
README.md
[Preview] README.md
lab1b.py > ...
13
14 num1=(float(input("enter your number for num1: ")))
15 num2=(float(input("enter your number for num2: ")))
16
17
18 # TO-DO 2:
19 # Perform all arithmetic oeprations as outlined in the description in README.md file, and print in the required format.
20
21 # Addition
22 print(num1 + num2)
23 # Substraction
24 print(num1 - num2)
25 # Multiplication
26 print(num1 * num2)
27 # Power
28 print(num1 ** num2)
29 # Division
30 print(num1 / num2)
31 # Floor Division
32 print(num1 // num2)
33 # Modulo
34 print(num1 % num2)
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS 4
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1a.py
<class 'str'>
<class 'int'>
<class 'str'>
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1b.py
enter your number for num1: 6
enter your number for num2: 9
15.0
-3.0
54.0
10077696.0
0.6666666666666666
0.0
6.0
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $
OUTLINE
TIMELINE
Codespaces: probable telegram
main*
0 0
4


lab-1-soroush-bastani [Codespaces: probable telegram]
EXPLORER
LAB-1-SOROUSH-BASTANI [CODESPACES: PROBAB...
lab1a.py M
lab1b.py M
lab1c.py M
lab1d.py M
lab1e.py M
README.md
lab1a.py M
lab1b.py M
lab1c.py M
lab1d.py M
lab1e.py M
README.md
[Preview] README.md
lab1c.py > ...
Add comments before you do anything else.
#!/usr/bin/env python3
Author: Soroush Bastani
Date: 2025-09-17
Purpose: Use string methods and f-string formating.
Usage: ./lab1c.py
#TO-DO 1:
# import math module.
# Create a variable called 'radius' and take its value form user.
# Convert the variable to float using float()
# use the constant pi form math module and compute the area of the circle using the variable 'radius'
import math
radius=float(input("input a number "))
area_of_circle=(math.pi * (radius ** 2))
print(area_of_circle)
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS 4
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1a.py
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1b.py
enter your number for num1: 6
enter your number for num2: 9
15.0
-3.0
54.0
10077696.0
0.6666666666666666
0.0
6.0
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1c.py
input a number 6
113.09733552923255
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $
OUTLINE
TIMELINE
Codespaces: probable telegram
main*
0 0
4


lab-1-soroush-bastani [Codespaces: probable telegram]
EXPLORER
LAB-1-SOROUSH-BASTANI [CODESPACES: PROBAB...
lab1a.py M
lab1b.py M
lab1c.py M
lab1d.py M
lab1e.py M
README.md
lab1a.py M
lab1b.py M
lab1c.py M
lab1d.py M
lab1e.py M
README.md
[Preview] README.md
lab1d.py > ...
Date: 2025-09-17
Purpose: Use string methods and f-string formating.
Usage: ./lab1d.py
#TO-DO 1:
# Create a variable called "name" and assign it the value of your name.
# Use the string method .upper() to convert the name to upper case.
# Create another variable called "age", the value of "age" should be your age
# The script, when executed, should print out "How are you yourname? Happy xxth birthday!" To print this output use .format() method.
name="Soroush Bastani"
print(name.upper())
age=30
print("How are you {}? Happy {}th birthday!".format(name,age))
#TO-DO 2:
# Create a variable called "words".
# The value of words should be "The quick brown fox jumps over the lazy dog".
# Use indexing to return the first and 17th charecters of "words" to the user.
words="The quick brown fox jumps over the lazy dog"
print(words[0], words[16])
#TO-DO 3:
# Use negative indexing to return the words "jumps" and "quick" from "words" to the user.
print(words[-23:-18], words[-39:-34])
#TO-DO 4:
Use slicing to retun everything between index 2-15 to the user.
Print "uick brown foxs ju" from "words".
print (words[2:15])
print(words[5:22])
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS 4
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1b.py
0.6666666666666666
0.0
6.0
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1c.py
input a number 6
113.09733552923255
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1d.py
SOROUSH BASTANI
How are you Soroush Bastani? Happy 30th birthday!
T f
jumps quick
e quick brown
uick brown fox ju
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $
OUTLINE
TIMELINE
Codespaces: probable telegram
main*
0 0 4


lab-1-soroush-bastani [Codespaces: probable telegram]
EXPLORER
LAB-1-SOROUSH-BASTANI [CODESPACES: PROBAB...
lab1a.py M
lab1b.py M
lab1c.py M
lab1d.py M
lab1e.py M
README.md
lab1a.py M
lab1b.py M
lab1c.py M
lab1d.py M
lab1e.py M
README.md
[Preview] README.md
lab1e.py > ...
#!/usr/bin/env python3
Author: Soroush Bastani
Date: 2025-09-17
Purpose: Use string methods and f-string formating.
Usage: ./lab1e.py
#TO-DO 1:
# Create a variable called "quantity".
# The value of "quantity" should be a decimal number of your own choice.
# Create another variable called "stock"
# The value of "stock" should also be a decimal number of your own choice.
# Print the product of `quantity` and `stock` with 4 spaces before the answer using the module % formatting.
# Then print the product of `quantity` and `stock` with 7 spaces before the answer and make sure the answer only goes to hundreadths (-.--) using the module % formatting.
quantity=6.99999999
stock=9.6666666
print("%4s" % (quantity * stock))
print("%7.2f" % (quantity * stock))
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS 4
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1b.py
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1c.py
input a number 6
113.09733552923255
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1d.py
SOROUSH BASTANI
How are you Soroush Bastani? Happy 30th birthday!
T f
jumps quick
e quick brown
uick brown fox ju
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $ /home/codespace/.python/current/bin/python /workspaces/lab-1-soroush-bastani/lab1e.py
67.66666610333333
67.67
@Soroush-Bastani ➜/workspaces/lab-1-soroush-bastani (main) $
OUTLINE
TIMELINE
Codespaces: probable telegram
main*
0 0
4