Indian Institute of Information Technology (IIIT) Pune

Python Lab.

3rd Semester

Academic Session 2024-2025

Lab - 1

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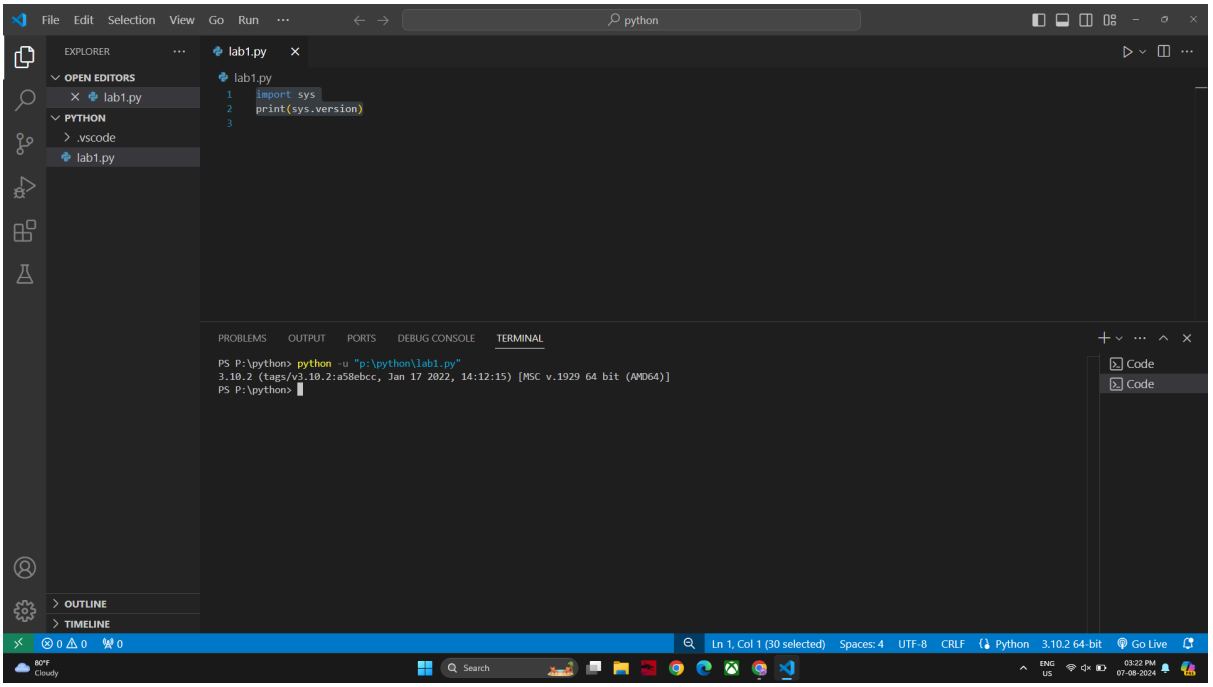
‘Group 4’

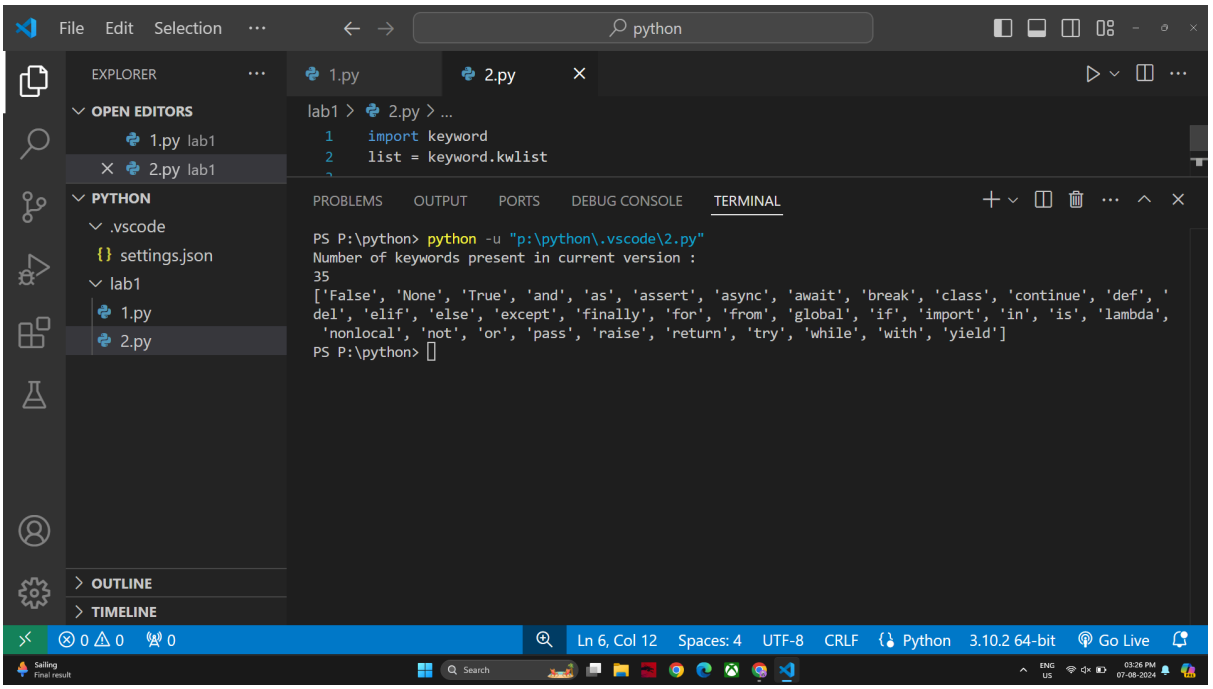
1) Python version

```
Import sys
print(sys.version)
```



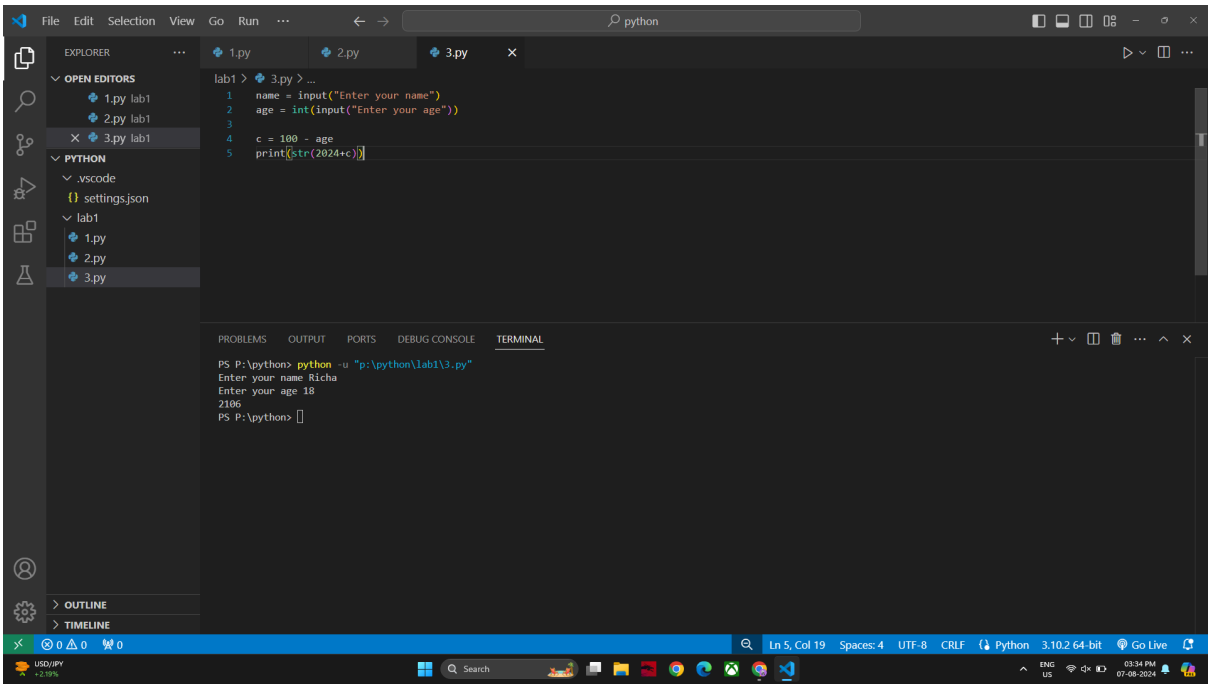
2) Write a Python program to list all the keywords in Python.

```
Import keyword
list = keyword.kwlist

print("Number of keywords present in current version :")
print(len(list))
print(list)
```



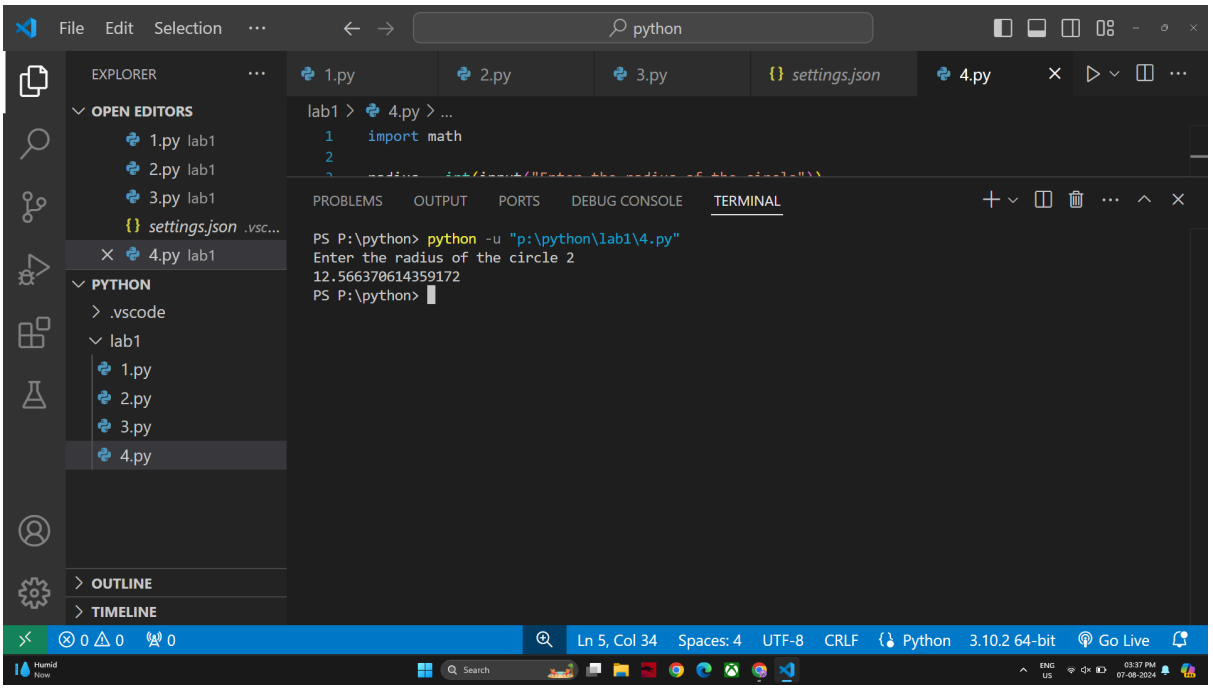
3) Write a program that asks the user to enter their name and their age. Print out a message addressed to them that tells them the year that they will turn 100 years old.

```
name = input("Enter your name")
age = int(input("Enter your age"))

c = 100 - age
print(str(2024+c))
```



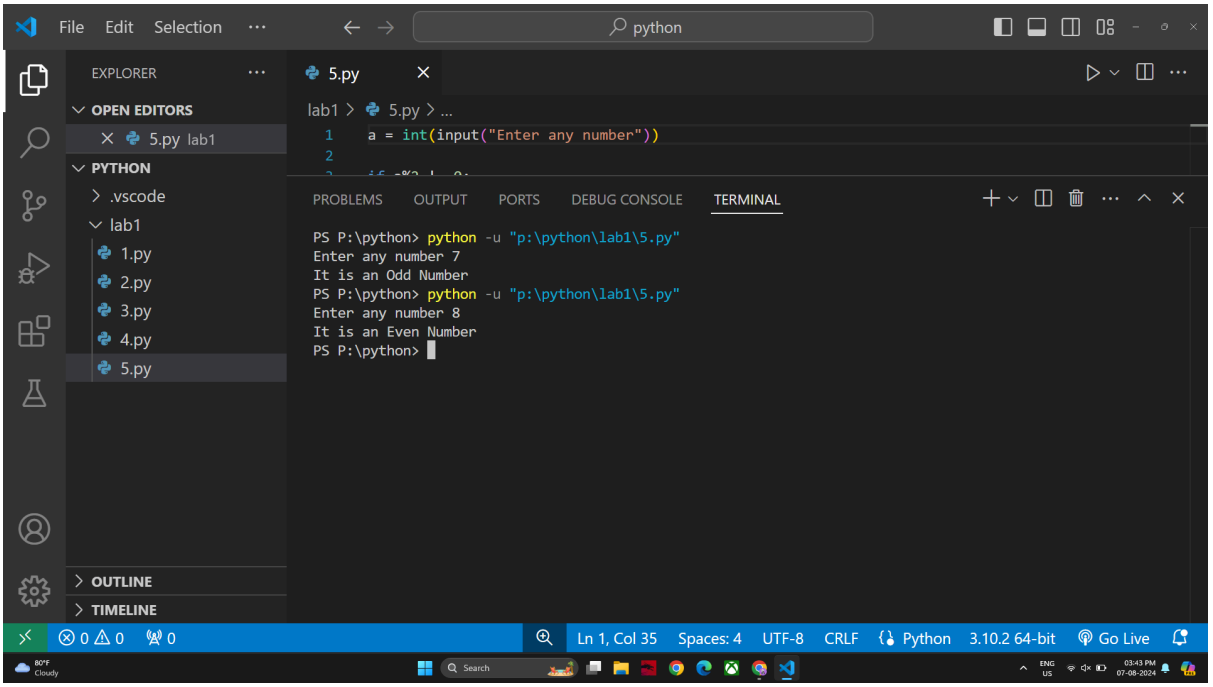
4) Write a python program which accepts the radius of a circle from the user and compute the area.

```
import math

radius = int(input("Enter the radius of the circle"))

print(str(math.pi*radius*radius))
```



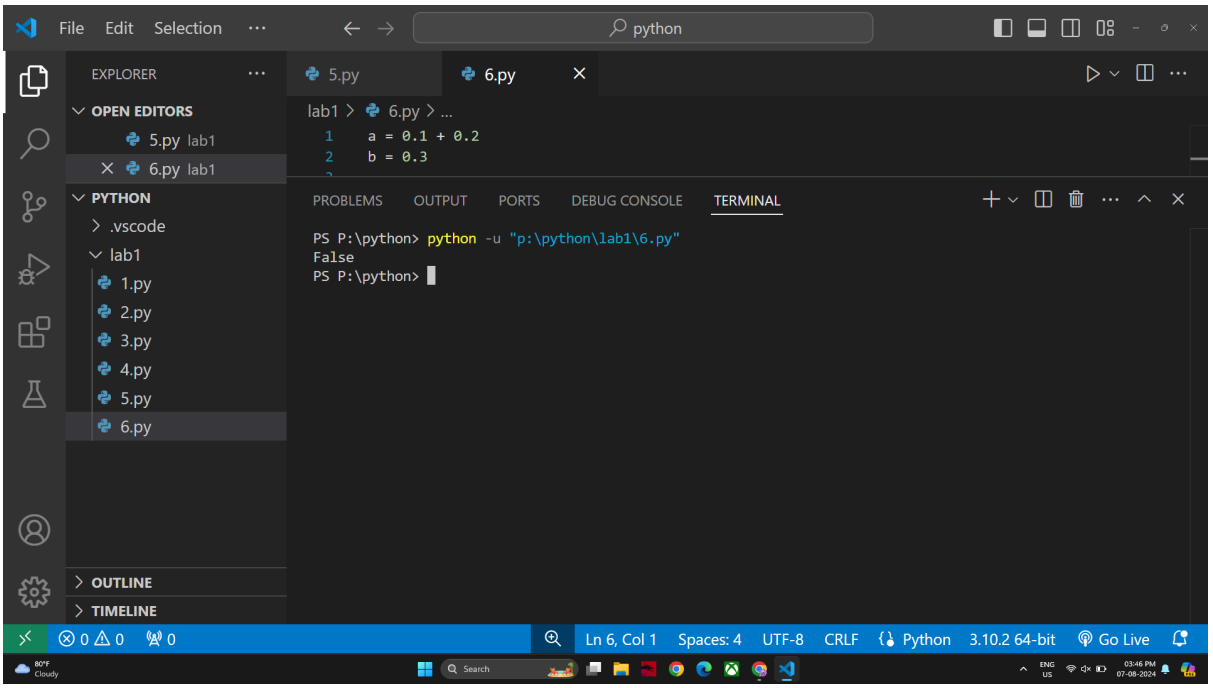
5) Ask the user for a number. Depending on whether the number is even or odd, print out an appropriate message to the user.

```
a = int(input("Enter any number"))

if a%2 != 0:
    print("It is an Odd Number")
else:
    print("It is an Even Number")
```

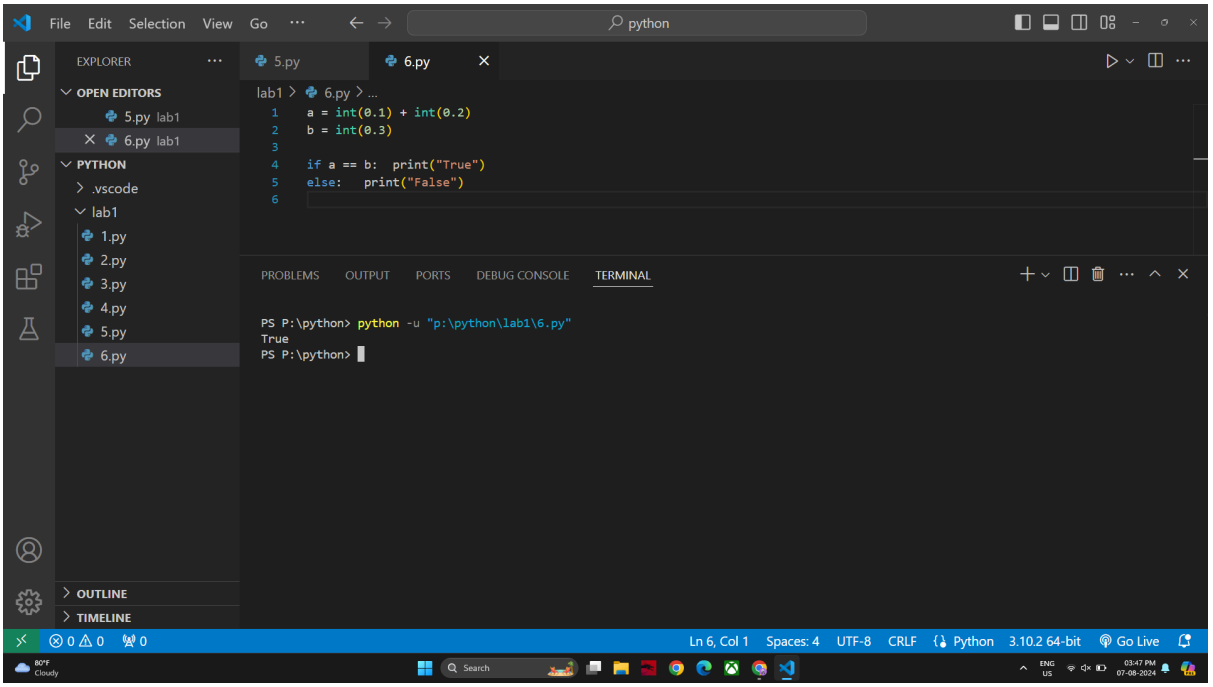


6) Check whether 0.1 + 0.2 = 0.3 holds true in Python? If not find the ways to make it true.

```
a = 0.1 + 0.2
b = 0.3

if a == b:  print("True")
else:   print("False")
```




```
a = int(0.1) + int(0.2)
b = int(0.3)

if a == b:  print("True")
else:   print("False")
```


File Edit Selection View Go
python
EXPLORER
OPEN EDITORS
5.py lab1
6.py lab1
PYTHON
.vscode
lab1
1.py
2.py
3.py
4.py
5.py
6.py
OUTLINE
TIMELINE
5.py
6.py
lab1 > 6.py > ...
1 a = int(0.1) + int(0.2)
2 b = int(0.3)
3
4 if a == b: print("True")
5 else: print("False")
6
PROBLEMS OUTPUT PORTS DEBUG CONSOLE TERMINAL
PS P:\python> python -u "p:\python\lab1\6.py"
True
PS P:\python>
Ln 6, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.2 64-bit Go Live
80°F Cloudy
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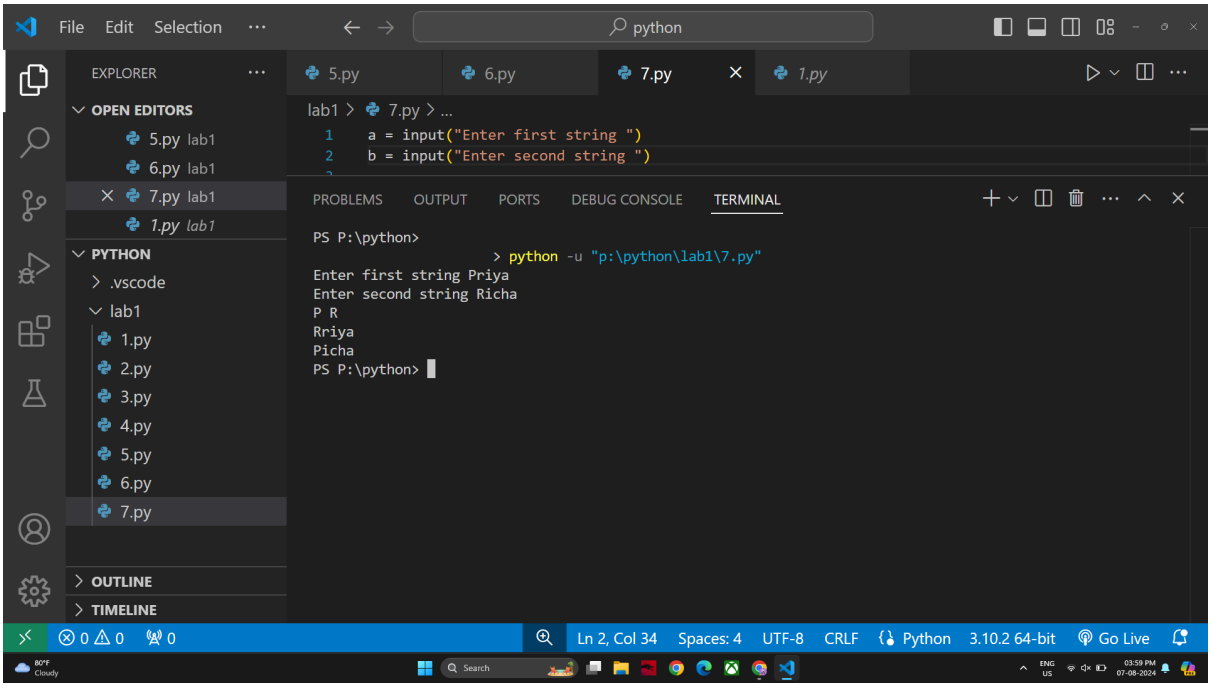
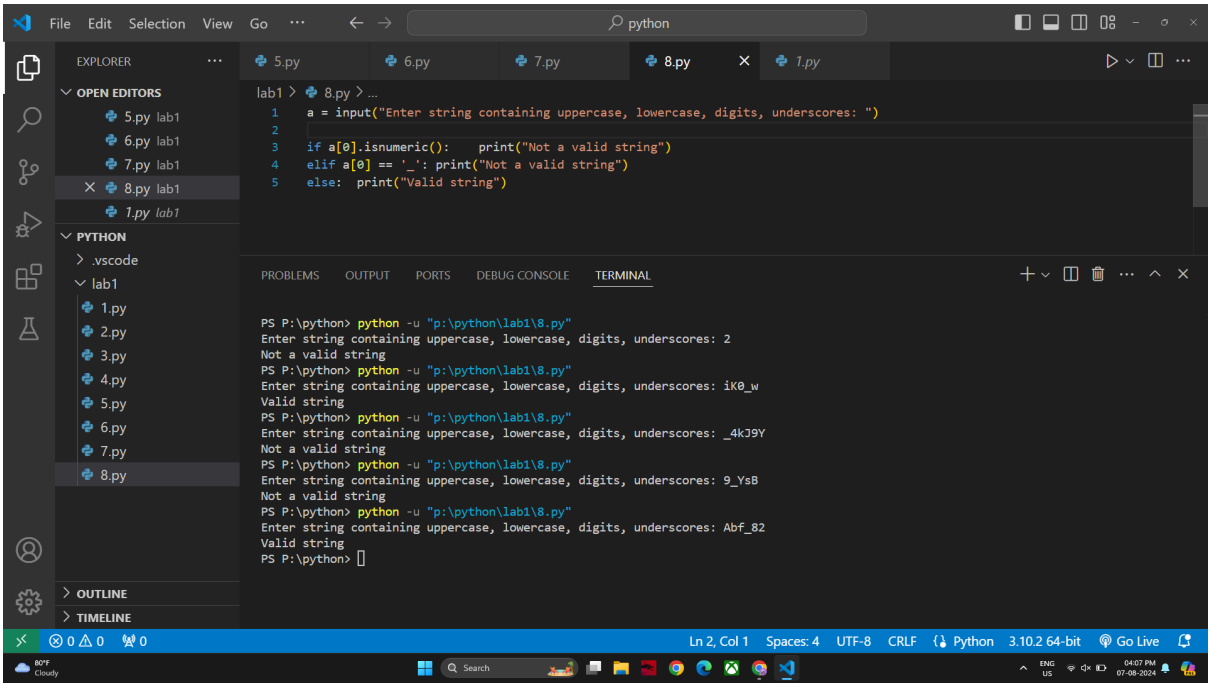
7) Write a Python program to get a single string from two given strings, separated by a space ans swap the first two characters of each string.

```
a = input("Enter first string ")
b = input("Enter second string ")

c = b[0] + a[1:]
d = a[0] + b[1:]

print(c)
print(d)
```



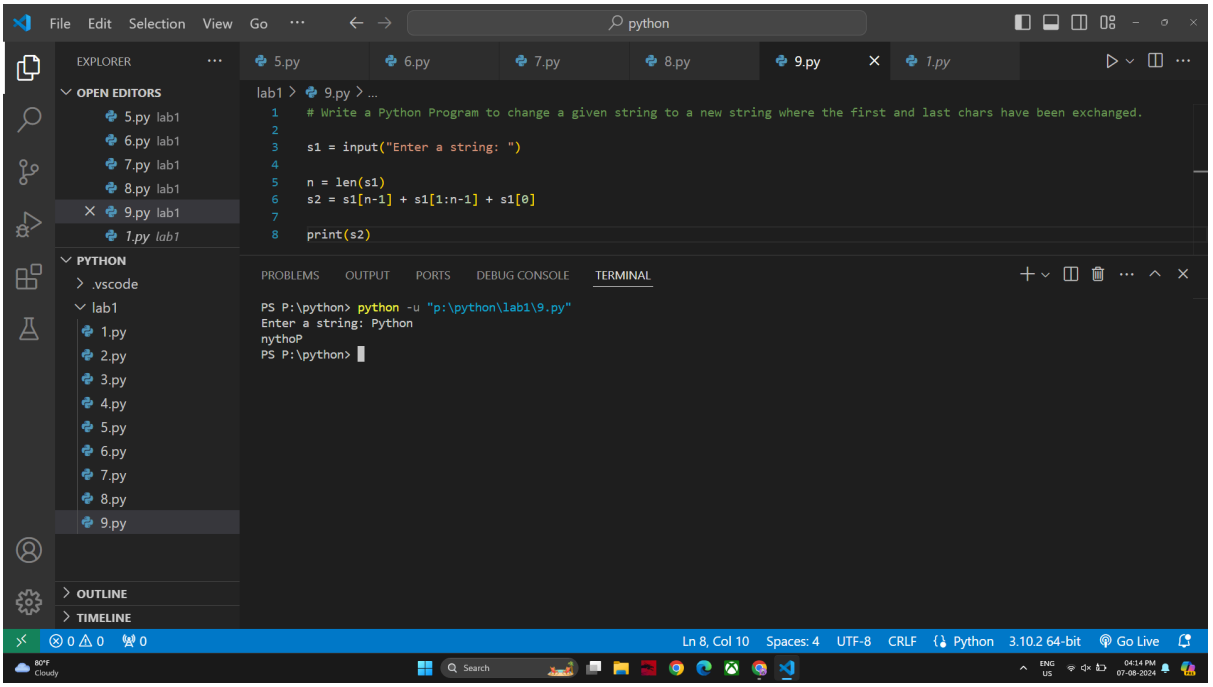
8) Ask the user for a string containing lowercase letters, uppercase letters, digits or underscores or combination of all. Write a Python program to check whether the string is a valid identifier.

```
a = input("Enter string containing uppercase, lowercase, digits, underscores: ")

if a[0].isnumeric():    print("Not a valid string")
elif a[0] == '_': print("Not a valid string")
else:  print("Valid string")
```



9) Write a Python Program to change a given string to a new string where the first and last chars have been exchanged.

```
# Write a Python Program to change a given string to a new string where the first
and last chars have been exchanged.

s1 = input("Enter a string: ")

n = len(s1)
s2 = s1[n-1] + s1[1:n-1] + s1[0]

print(s2)
```



10) Write a Python script that takes input from the user and displays that input back in uppercase and lowercase.

```
s = input("Enter the string: ")

print(s.upper())
print(s.lower())
```