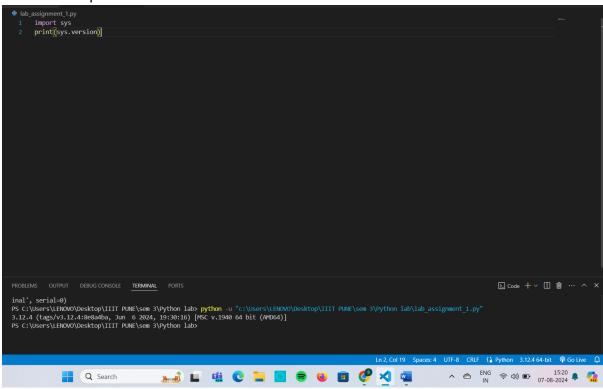
## Python Lab Assignment 1

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MIS: 112315179 (G4)

Q.1 Write a Python program to print the version of Python you are using.

Code and output:



Q.2 Write a Python program to list all the keyword in Python.

```
Code: import keyword

print(keyword.kwlist)

Output:

Sejal, the year that you will turn 100 is: 2104

PS C:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab> python -u "c:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab\lab_assignment_1.py"

[False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break', 'class', 'continue', 'def', 'del', 'elif', 'else', 'except', 'finally ', 'for', 'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'not', 'or', 'pass', 'raise', 'return', 'try', 'while', 'with', 'yi eld']

PS C:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab>
```

Q.3 Create 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.

```
Code: name = input("Enter your name:")
age = int(input("Enter your age:"))
after_age = (100-age) + 2024
```

```
print(f"{name}, the year that you will turn 100 is: {after_age}")
Output:
    PS C:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab> python -u "c:\Users\LENOVO\Desktop\
Enter your name:Sejal
Enter your age:20
Sejal, the year that you will turn 100 is: 2104
PS C:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab> []
```

Q.4 Write a Python program that accepts the radius of a circle from the user and compute the area (Hint: import math and use math.pi)

```
Code:

import math

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

area = (math.pi)*radius*radius

circumference = (math.pi)*2*radius

print("The area of circle is:", area)

print(f"The circumference of the circle is: {circumference:.4f}")

The area of circle is: 50.26548245743669

PS C:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab> python -u "c:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab\lab_assignment_1.py"

Enter the radius of the circle:3

The area of circle is: 28.274333882308138

The circumference of the circle is: 18.8496

PS C:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab> [

In 6.Col 66 (240 selected) Spaces: 4 UTF-8 CREF () Python
```

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

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

```
Code:
    if(0.1+0.2==0.3):
        print("True")
    else:
        print("False")
```

```
#As the above 0.1+0.2 is false, we need to convert them into the same type to limit the decimal points

value = int(0.1) + int(0.2) == int(0.3)

print(value)

Output:

raise
PS C:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab> python -u "c:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab
False
True
PS C:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab> \[
Ln 7, Col 13 (222 selected)
```

Q.7 Write a Python program to get a single string from two given strings, separated by a space and swap the first two characters of each string

```
Code:

name = "python"

name2 = "lab"

new_string = name + " " + name2

print(new_string)

swap1 = name2[0:2] + name[2:]

swap2 = name[0:2] + name2[2:]

re_string = swap1 + " " + swap2

print(re_string)

Output:

pyb

PS C:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab> python -u "c:\Users\LENOVO\Desktop\III

y"

python lab

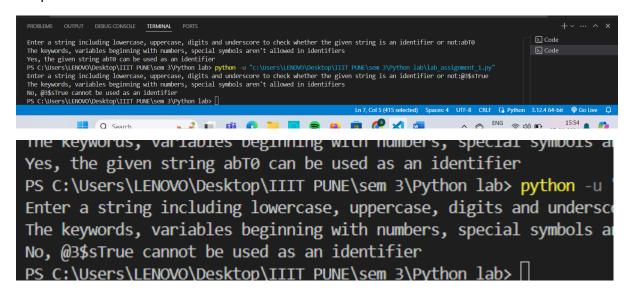
lathon pyb

PS C:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab> [
```

Q.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.

```
Code:
    name = input("Enter a string including lowercase, uppercase, digits and
    underscore to check whether the given string is an identifier or not:")
print("The keywords, variables beginning with numbers, special symbols aren't
    allowed in identifiers")
if(name.isidentifier()):
    print("Yes, the given string", name, "can be used as an identifier")
else:
    print("No,", name, "cannot be used as an identifier")
```

## Output:



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

```
Code:

name = input("Enter a string:")

new_string = name[-1] + name[1:-1] + name[0]

print("The new string with first and last characters swapped is:",new_string)

Output:

PS C:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab> python -u "c:\Users\LENOVO\Desktop\IIIT PUNE\se y"

Enter a string:hello there
The new string with first and last characters swapped is: eello therh
PS C:\Users\LENOVO\Desktop\IIIT PUNE\sem 3\Python lab> []
```

Q.10 Write a Python script that takes input from the user and displays that input back in upper and lower cases.

```
Code:

user_input = input("Enter a string to be displayed in upper and lowercase:")

print("The given string is:",user_input)

print("The string in uppercase is:",user_input.upper())

print("The string in lowercase is:",user_input.lower())

Output:

**Package of the print of the displayed in upper and lowercase:Python Lab

The given string is: Python Lab

The string in uppercase is: Python Lab

The string in lowercase is: Python Lab

The string in lowercase is: Python Lab

The string in lowercase is: Python lab

PS C:\Users\LENOVO\Desktop\LIIIT PUNE\sem 3\Python lab>

In 5, Col 1 (234 selected) Spaces 4 UTF-8 CRIF
```