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Group:g4

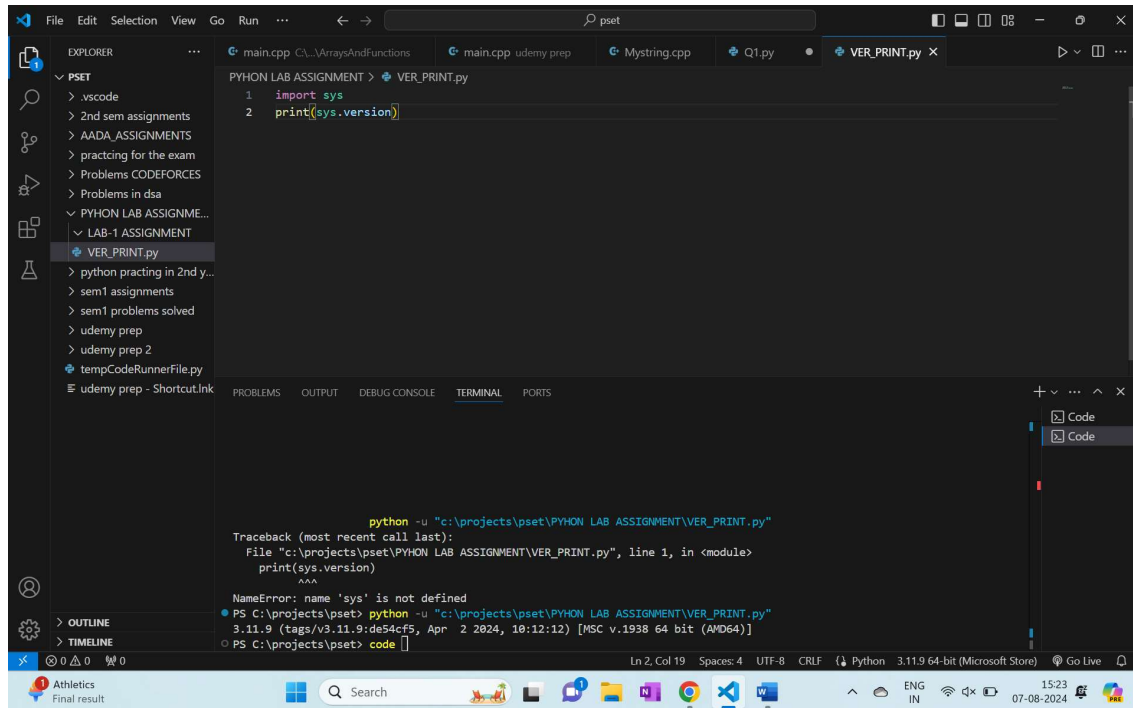
MIS:112315151

Q1 to print the version of the current python

Input

```
import sys
```

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



The screenshot shows a Visual Studio Code window with a file explorer on the left and a code editor in the center. The file explorer shows a project named 'PSET' with a subfolder 'PYTHON LAB ASSIGNMENT' containing a file 'VER_PRINT.py'. The code editor shows the following Python code:

```
1 import sys
2 print(sys.version)
```

The terminal at the bottom shows the command `python -u "c:\projects\pset\PYTHON LAB ASSIGNMENT\VER_PRINT.py"` being executed. The output is a `Traceback (most recent call last):` error message: `NameError: name 'sys' is not defined`. The error message also includes the file path and line number: `File "c:\projects\pset\PYTHON LAB ASSIGNMENT\VER_PRINT.py", line 1, in <module> print(sys.version)`. The terminal also shows the command `python -u "c:\projects\pset\PYTHON LAB ASSIGNMENT\VER_PRINT.py"` being executed again, and the output is `3.11.9 (tags/v3.11.9:de54cf5, Apr 2 2024, 10:12:12) [MSC v.1938 64 bit (AMD64)]`.

Q2 to print all the keywords

INPUT

```
import keyword
```

```
print(keyword.kwlist)
```

output

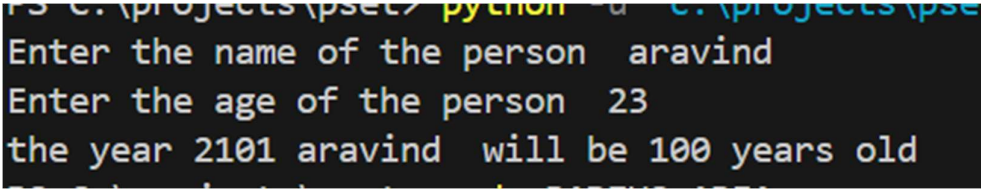
```
['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break', 'class', 'continue', 'def', 'del', 'elif', 'se', 'except', 'finally', 'for', 'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'not', 'or', 'p', 'raise', 'return', 'try', 'while', 'with', 'yield']
```

Q3 to take input of the age of the person and replying

Input

```
name=input("Enter the name of the person"+ " ")
age=int(input("Enter the age of the person"+ " "))
limit=2024+100-age
print("the year",limit,name," will be 100 years old")
```

OUTPUT

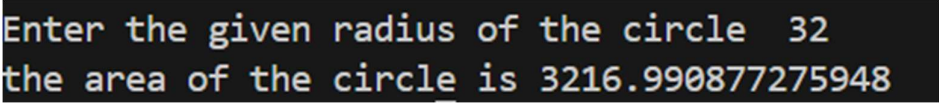
A screenshot of a terminal window showing the execution of a Python script. The prompt is 'PS C:\projects\pset7> python -u ...'. The user enters 'aravind' for the name and '23' for the age. The output is 'the year 2101 aravind will be 100 years old'.

Q4 to print the area using radius given

INPUT

```
import math
radius=float(input("Enter the given radius of the circle"+ " "))
area=(math.pi)*radius*radius
print("the area of the circle is",area)
```

OUTPUT

A screenshot of a terminal window showing the execution of a Python script. The user enters '32' for the radius. The output is 'the area of the circle is 3216.990877275948'.

Q5 to print whether the given number is even or odd

INPUT

```
num=int(input("Enter the desired number"+ " "))
if num%2==0:
    print("the given number is even")
else:
    print("the given number is odd")
```

OUTPUT

```

Enter the desired number 34
the given number is even
PS C:\projects\pset> python
Enter the desired number 1
the given number is odd

```

Q6 to check whether $0.1+0.2=0.3$ hold or not

INPUT

```
lab=0.1+0.2
```

```
if(lab==0.3):
```

```
    print("8")
```

```
    print("the sol is true")
```

```
else:
```

```
    print("it is false")
```

#here it is clearly showing the false option

```
l=round(0.2+0.1,2)
```

```
if(l==round(0.3,2)):
```

```
    print("its true in decimal case")
```

```
else:
```

```
    print("its not working")
```

OUTPUT

```

PS C:\projects\pset> python -u
it is false
its true in decimal case

```

Q7 to change the first character of the given string

INPUT

```
string1=input("enter the string ")
```

```
string2=input("enter the second string ")
```

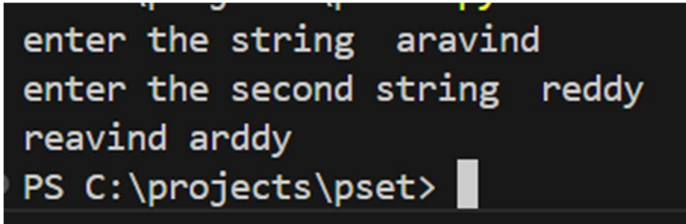
```
l=string1[:2]
```

```
s=string2[:2]
```

```
new_string1=s+string1[2:]
```

```
new_string2=l+string2[2:]
print(new_string1,new_string2,sep=" ")
```

OUTPUT



```
enter the string aravind
enter the second string reddy
reavind arddy
PS C:\projects\pset>
```

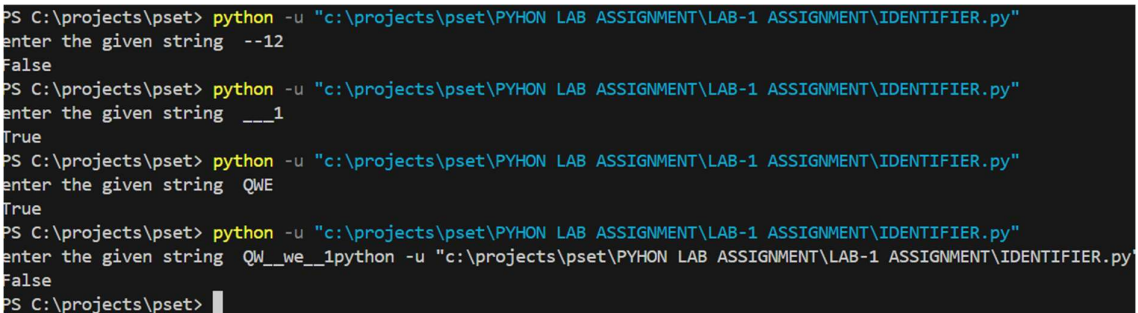
Q8 to check the string is valid or not through identifier

INPUT

#here we are using an identifier to find is it reasonable string

```
string1=input("enter the given string ")
print(string1.isidentifier())
```

output



```
PS C:\projects\pset> python -u "c:\projects\pset\PYTHON LAB ASSIGNMENT\LAB-1 ASSIGNMENT\IDENTIFIER.py"
enter the given string --12
False
PS C:\projects\pset> python -u "c:\projects\pset\PYTHON LAB ASSIGNMENT\LAB-1 ASSIGNMENT\IDENTIFIER.py"
enter the given string _1
True
PS C:\projects\pset> python -u "c:\projects\pset\PYTHON LAB ASSIGNMENT\LAB-1 ASSIGNMENT\IDENTIFIER.py"
enter the given string QWE
True
PS C:\projects\pset> python -u "c:\projects\pset\PYTHON LAB ASSIGNMENT\LAB-1 ASSIGNMENT\IDENTIFIER.py"
enter the given string QW_we_1python -u "c:\projects\pset\PYTHON LAB ASSIGNMENT\LAB-1 ASSIGNMENT\IDENTIFIER.py"
False
PS C:\projects\pset>
```

Q9to change the first and last characters

INPUT

```
string1=input("enter the string ")
string2=input("enter the second string ")
l=string1[:1]
s=string2[:1]
h=string1[len(string1)-1:]
d=string2[len(string2)-1:]
new_string1=s+string1[1:len(string1)-1]+h
new_string2=l+string2[1:len(string2)-1]+d
print(new_string1,new_string2,sep=" ")
```

OUTPUT

```
PS C:\projects\pset> python -u "c:\projects\pset\PYTHON LAB ASSIGNMENT\LAB-1 ASSIGNMENT\CHANGE_FIRST_LAST.py"
enter the string aravind
enter the second string reddy
rraviny aeddd
```

Q10 to convert the given string in upper and lower case

INPUT

```
string1=input("enter the given string ")
```

```
print(string1.upper())
```

```
print(string1.lower())
```

OUTPUT

```
enter the given string aravind
ARAVIND
aravind
PS C:\projects\pset> python -u "c:\pr
enter the given string araARA
ARAARA
araara
PS C:\projects\pset>
```