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Assignment 1

Question 1:

Write python program to get the version you are using

Code:

```
import sys
print("your python version is:")
print(sys.version)
```

Output:

```
PS C:\Users\Vedang shendye> py
                            > python -u "d:\Btech 3rd semester\Python lab\q1 7aug.py"
your python version is:
3.12.4 (tags/v3.12.4:8e8a4ba, Jun  6 2024, 19:30:16) [MSC v.1940 64 bit (AMD64)]
PS C:\Users\Vedang shendye>
```

Question 2:

Python program to list all keywords in python

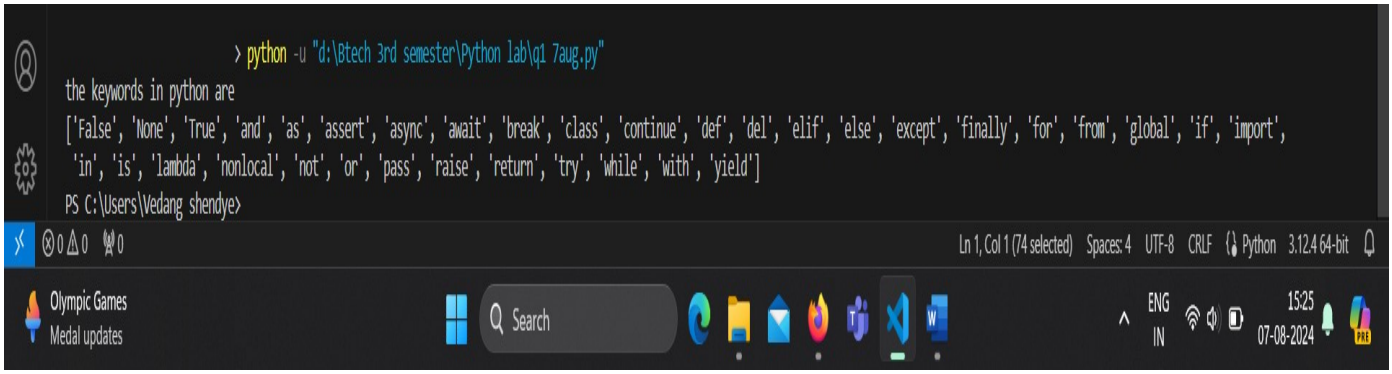
Code:

```
import keyword

print("the keywords in python are")

print(keyword.kwlist)
```

Output:



Question 3:Create a python program that asks user to enter their age. Print message addressed to them telling the year when they will turn 100

Code:

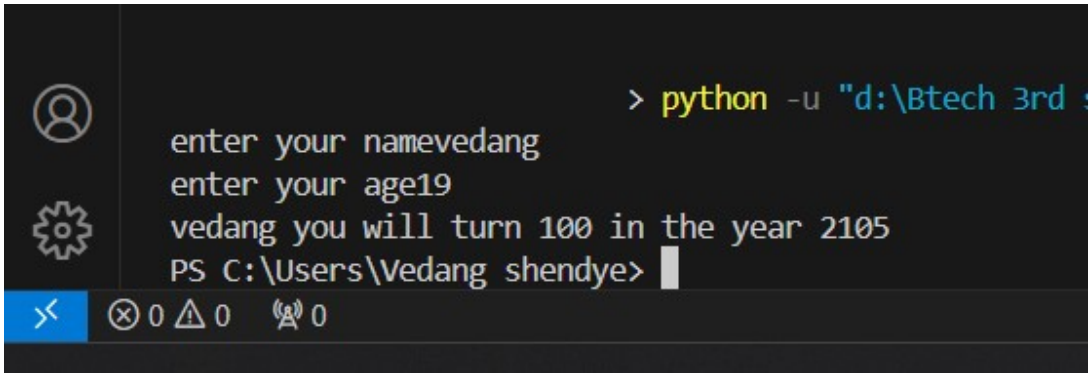
```
import keyword

name=input("enter your name")

age=input("enter your age")

print(name, "you will turn 100 in the year",2024-int(age)+100)
```

Output:



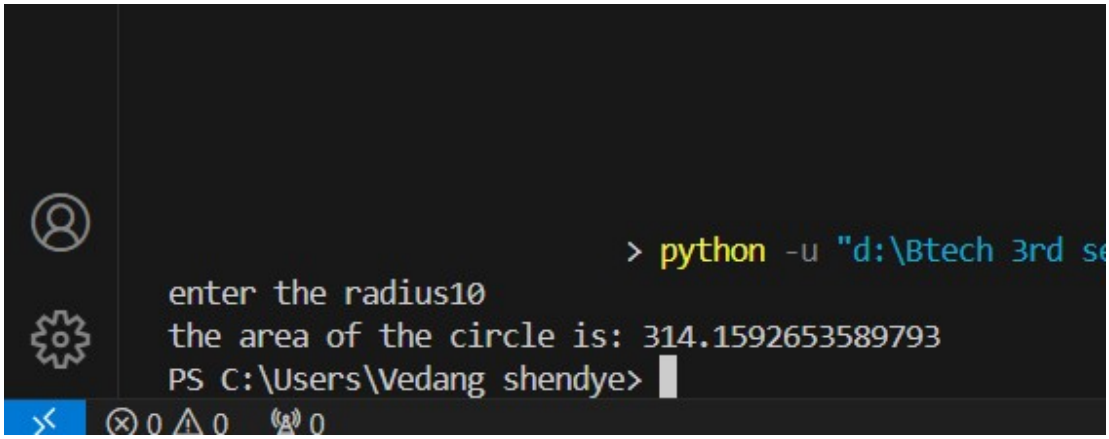
Question 4:

Write a python program that accepts the radius of circle from the user and prints the area

Code:

```
import math
radius=int(input("enter the radius"))
area=float(radius*radius*math.pi)
print("the area of the circle is:",area)
```

Output:



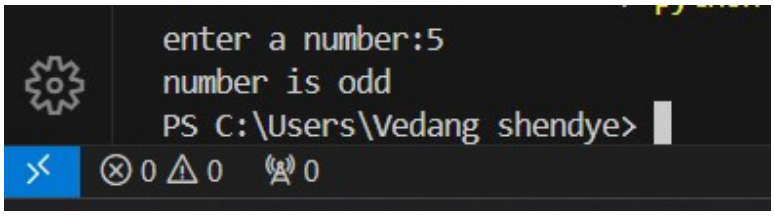
Question 5:

Ask the user for a number. Depending upon if the number is even or odd, display an appropriate message to user.

Code:

```
import math
num=int(input("enter a number:"))
if num%2==0:
    print("number is even")
else:
    print("number is odd")
```

Output:

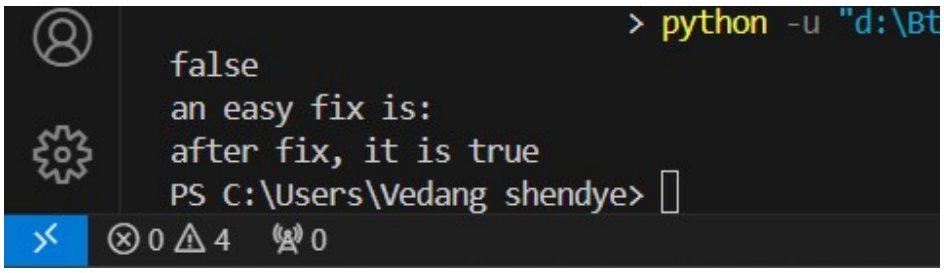


Question 6: Check whether 0.1+0.2==3 holds true in python. If not, find ways to make it.

Code:

```
import math
from decimal import *
getcontext().prec=6
a=0.1
b=0.2
if a+b==0.3 :
    print("true")
else:
    print("false")
print("an easy fix is:")
if Decimal("0.3") - Decimal("0.2") == Decimal("0.1"):
    print("after fix, it is true")
else:
    print("after fix, it is false")
```

Output:



Question 7:

Write a python program to get a single string from two given string, separated by a space and swap the two first characters of the string

Code:

```
string1=str(input('enter the first string:'))
string2=str(input("enter the second string:"))
string3=string2[0]+string1[1:]
string4=string1[0]+string2[1:]
string5=string3+" "+string4
print("the new string formed from the two strings is:",string5)
```

Output:

```
PS C:\Users\Vedang shendye> python -u "d:\Btech 3rd semester\Python lab\q1 7aug.py"
enter the first string:hello
enter the second string:world
the new string formed from the two strings is: wello  horld
PS C:\Users\Vedang shendye>
```

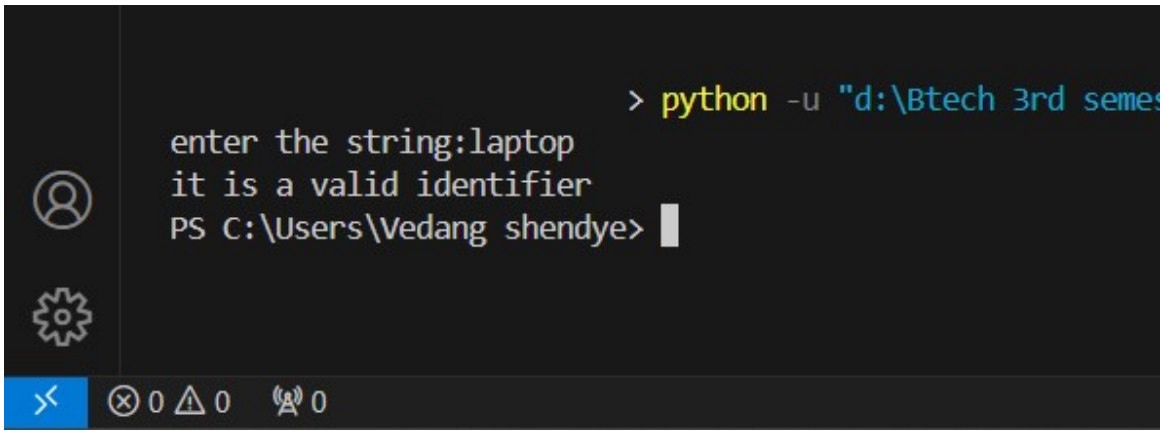
Question 8:Ask user for a string containing lowercase characters, uppercase characters, digits or underscores or combination of all. Write a python program to see if the string is valid identifier

Code:

```
string1=str(input('enter the string:'))
if string1.isidentifier():
```

```
    print("it is a valid identifier")
else:
    print("it is not a valid identifier")
```

Output:



Question 9:

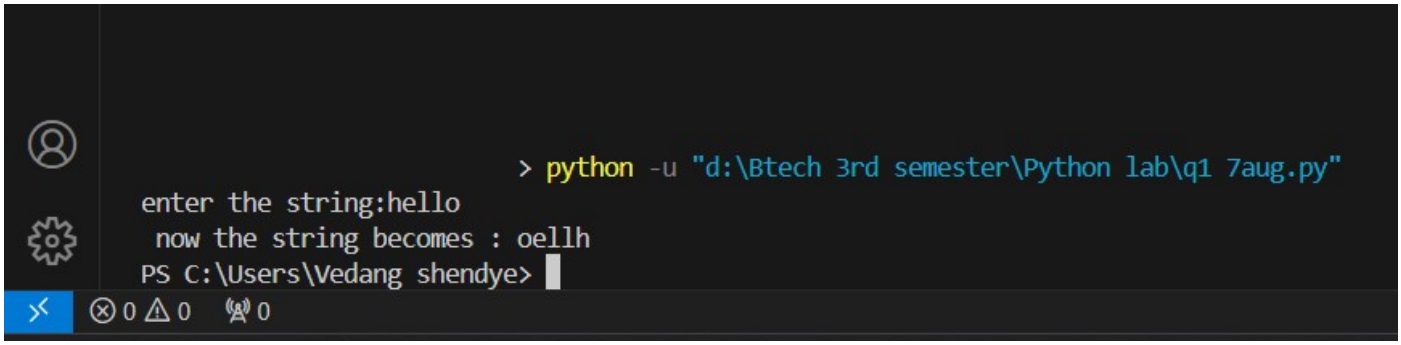
Write a python program to change the given string into a new string where first and last characters are exchanged

Code:

```
string1=str(input('enter the string:'))
a=int(len(string1))
string2=string1[1:a-1:1]
string3=string1[a-1]+string2+string1[0]

print(" now the string becomes :",string3)
```

Output:



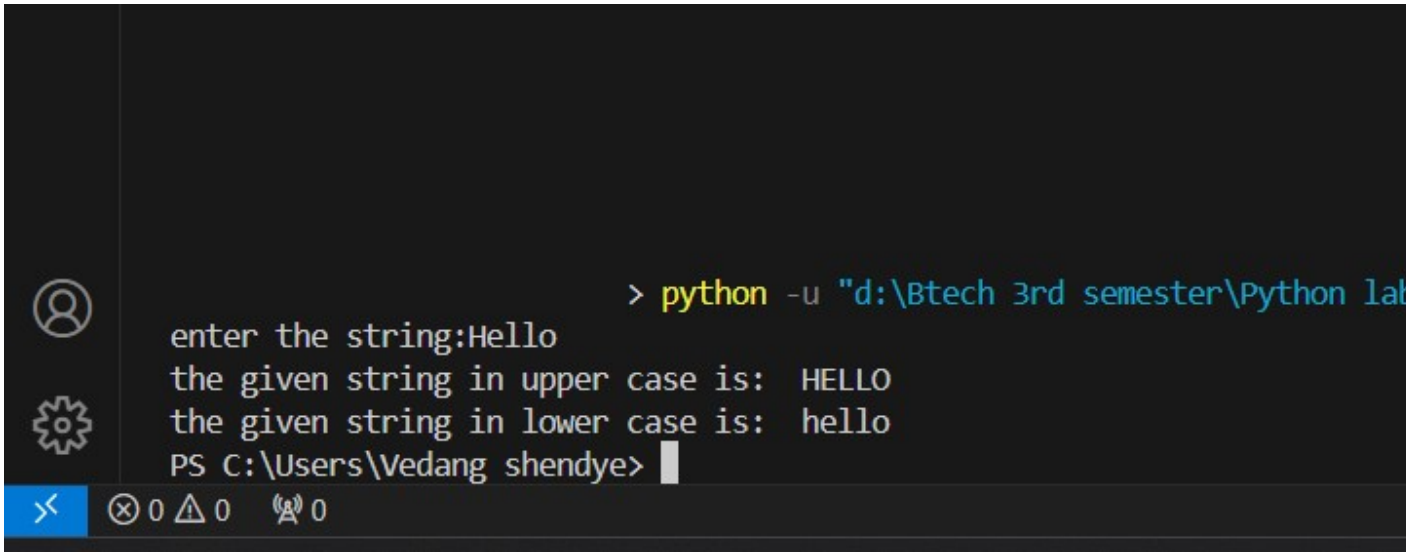
Question 10:

Write a python script that takes an input string from user and prints that string back in upper and lower cases

Code:

```
string1=str(input('enter the string:'))
string2=string1.upper()
print("the given string in upper case is: ",string2)
string3=string1.lower()
print("the given string in lower case is: ",string3)
```

Output:


> python -u "d:\Btech 3rd semester\Python lab
enter the string:Hello
the given string in upper case is: HELLO
the given string in lower case is: hello
PS C:\Users\Vedang shendye>
0 0 0