

File Edit Selection View Go Run Terminal Help 5.py - Untitled (Workspace) - Visual Studio Code

1.py 2.py 3.py 4.py 5.py

Practice assignment 5 > 5.py > ...

```
1 from datetime import date
2
3 class Person:
4     def __init__(self):
5         self.__name=input("Enter first name:")
6         self.__surname=input("Enter last name: ")
7         self.__bdate=date(int(input("Enter year: ")),int(input("Enter month: ")),int(input
8         ("Enter day: ")))
9         self.__addr=input("Enter address: ")
10        self.__ph=int(input("Enter phone number: "))
11        self.__email=input("Enter email id: ")
12
13    def display(self):
14        print("Name: ",self.__name,self.__surname,"\nBirthday: ",self.__bdate,"\nAddress: ",
15        self.__addr,"\nPhone Number: ",self.__ph,"\nEmail: ",self.__email)
16        self.__myage()
17
18    def __myage(self):
19        current=date.today()
20        x=current.year-self.__bdate.year - ((current.month,current.day)<(self.__bdate.month,
21        self.__bdate.day))
22        print("Current age is : " ,x)
23
24 obj=Person()
25 print("----User details----")
26 obj.display()
27
```

PROBLEMS OUTPUT TERMINAL Python +

```
E:\TYBCS\Python\College\Practice assignment 5>python 5.py
Enter first name:Hrishi
Enter last name: Wavhal
Enter year: 2000
Enter month: 10
Enter day: 12
Enter address: Aundh
Enter phone number: 9552776288
Enter email id: hrishikwavhal@gmail.com
----User details----
Name: Hrishi Wavhal
Birthday: 2000-10-12
Address: Aundh
Phone Number: 9552776288
Email: hrishikwavhal@gmail.com
Current age is : 21

E:\TYBCS\Python\College\Practice assignment 5>
```

Python 3.8.5 64-bit 0 0

Ln 24, Col 28 Spaces: 4 UTF-8 CRLF Python

File Edit Selection View Go Run Terminal Help 4.py - Untitled (Workspace) - Visual Studio Code

1.py 2.py 3.py 4.py 5.py

Practice assignment 5 > 4.py > ...

```
1 class Printer:
2     def setString(self,x):
3         self.__mystr=x
4
5     def printString(self,ch):
6         if ch in 'Uu':
7             print(self.__mystr.upper())
8         if ch in 'Ll':
9             print(self.__mystr.lower())
10
11
12 obj=Printer()
13 temp=input("Enter a string: ")
14
15 obj.setString(temp)
16 choice=input("Enter upper or lower (u/l): ")
17 obj.printString(choice)
18
```

PROBLEMS OUTPUT TERMINAL Python

```
E:\TYBCS\Python\College\Practice assignment 5>python 4.py
Enter a string: KaliCharan12109630
Enter upper or lower (u/l): u
KALICHARAN12109630

E:\TYBCS\Python\College\Practice assignment 5>
```

Python 3.8.5 64-bit 0 0 Ln 11, Col 1 Spaces: 4 UTF-8 CRLF Python

File Edit Selection View Go Run Terminal Help 3.py - Untitled (Workspace) - Visual Studio Code

1.py 2.py 3.py 4.py 5.py

Practice assignment 5 > 3.py > ...

```
1 import math
2
3 class Point:
4     def __init__(self,a,b):
5         self.__x=a
6         self.__y=b
7
8
9     @staticmethod
10    def distance(p1,p2):
11        d=math.sqrt((p2.__x-p1.__x)**2 + (p2.__y-p1.__y)**2)
12        print("Distance is: ",d)
13
14
15 a=float(input("Enter X: "))
16 b=float(input("Enter Y: "))
17 p1=Point(a,b)
18
19 a=float(input("Enter X: "))
20 b=float(input("Enter Y: "))
21 p2=Point(a,b)
22
23 Point.distance(p1,p2)
24
```

PROBLEMS OUTPUT TERMINAL Python + -

```
E:\TYBCS\Python\College\Practice assignment 5>python 3.py
Enter X: 2
Enter Y: 3
Enter X: 6
Enter Y: 7
Distance is: 5.656854249492381

E:\TYBCS\Python\College\Practice assignment 5>
```

Python 3.8.5 64-bit 0 0 0 Ln 23, Col 21 Spaces: 4 UTF-8 CRLF Python

File Edit Selection View Go Run Terminal Help 2.py - Untitled (Workspace) - Visual Studio Code

1.py 2.py 3.py 4.py 5.py

Practice assignment 5 > 2.py > ...

```
1 class Rectangle:
2     def __init__(self):
3         self.__length=float(input("Enter length: "))
4         self.__width=float(input("Enter width: "))
5         self.isSquare()
6
7
8     def getLength(self):
9         return self.__length
10
11    def getWidth(self):
12        return self.__width
13
14    def area(self):
15        print("Area: ",self.__length*self.__width)
16
17    def isSquare(self):
18        if self.__length==self.__width:
19            print("It is a Square")
20        else :
21            print("It is not a Square")
22
23 myrect=Rectangle()
24 myrect.area()
```

PROBLEMS OUTPUT TERMINAL Python

```
E:\TYBCS\Python\College\Practice assignment 5>python 2.py
Enter length: 6
Enter width: 3
It is not a Square
Area: 18.0

E:\TYBCS\Python\College\Practice assignment 5>
```

Python 3.8.5 64-bit 0 0 Ln 23, Col 9 Spaces: 4 UTF-8 CRLF Python

FileEditSelectionViewGoRunTerminalHelp

1.py - Untitled (Workspace) - Visual Studio Code

1.py2.py3.py4.py5.py

Practice assignment 5 > 1.py > ...
1 import math
2
3 class Circle:
4 def __init__(self):
5 self.__r=float(input("Enter radius: "))
6
7 def area(self):
8 print("Area: ",round(math.pi*self.__r**2,2))
9
10 def peri(self):
11 print("Perimeter: ",round(2*math.pi*self.__r,2))
12
13 mycircle=Circle()
14 mycircle.area()
15 mycircle.peri()
16

PROBLEMSOUTPUTTERMINALPython

E:\TYBCS\Python\College\Practice assignment 5>python 1.py
Enter radius: 2.7
Area: 22.9
Perimeter: 16.96

E:\TYBCS\Python\College\Practice assignment 5>

Python 3.8.5 64-bit 0 0

Ln 13, Col 11Spaces: 4UTF-8CRLFPython