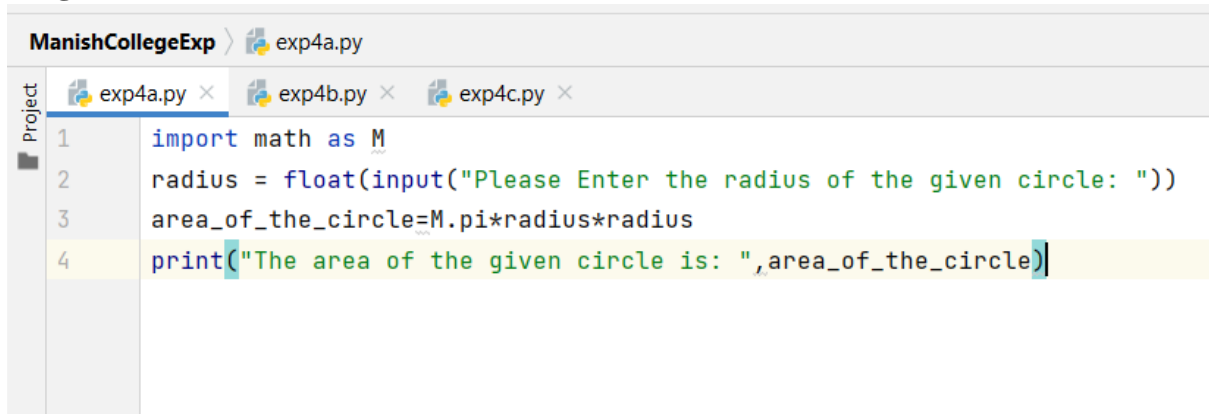


Experiment No.4

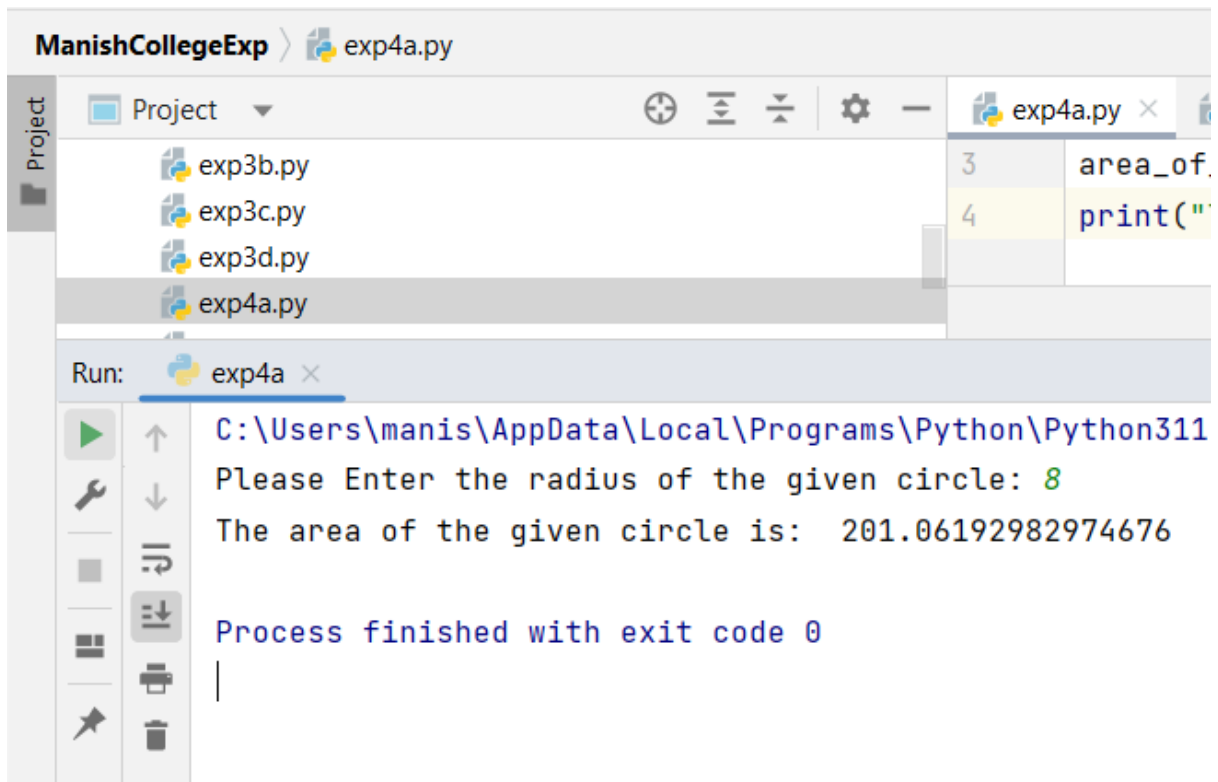
Aim: Edit/compile/run a program to read the radius of a circle and print the area of the circle.

Program A:

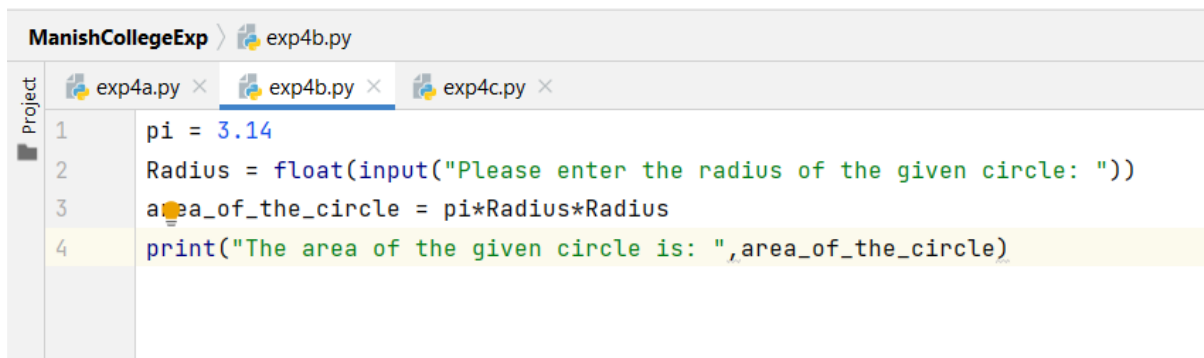


```
ManishCollegeExp > exp4a.py
exp4a.py x exp4b.py x exp4c.py x
1 import math as M
2 radius = float(input("Please Enter the radius of the given circle: "))
3 area_of_the_circle=M.pi*radius*radius
4 print("The area of the given circle is: ",area_of_the_circle)
```

Output:



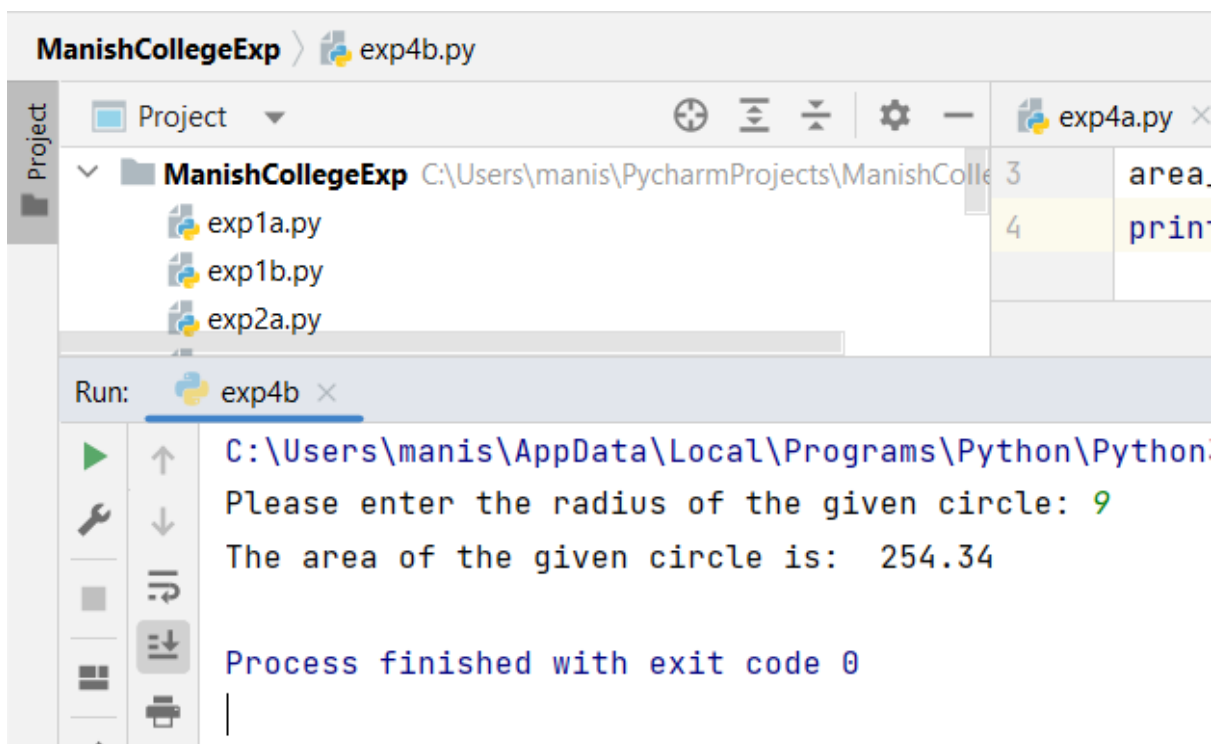
```
ManishCollegeExp > exp4a.py
Project
exp3b.py
exp3c.py
exp3d.py
exp4a.py
Run: exp4a x
C:\Users\manis\AppData\Local\Programs\Python\Python311
Please Enter the radius of the given circle: 8
The area of the given circle is: 201.06192982974676
Process finished with exit code 0
```

Program B:


```

ManishCollegeExp > exp4b.py
exp4a.py x exp4b.py x exp4c.py x
1 pi = 3.14
2 Radius = float(input("Please enter the radius of the given circle: "))
3 area_of_the_circle = pi*Radius*Radius
4 print("The area of the given circle is: ",area_of_the_circle)

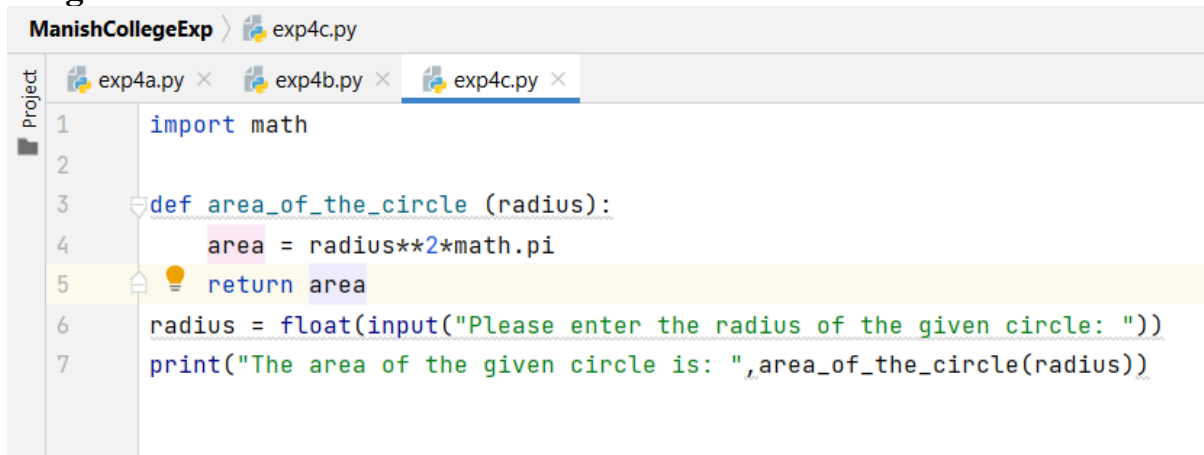
```

Output:


```

ManishCollegeExp > exp4b.py
Project
ManishCollegeExp C:\Users\manis\PycharmProjects\ManishCollegeExp
exp1a.py
exp1b.py
exp2a.py
Run: exp4b x
C:\Users\manis\AppData\Local\Programs\Python\Python3.9\python.exe
Please enter the radius of the given circle: 9
The area of the given circle is: 254.34
Process finished with exit code 0

```

Program C:


```

ManishCollegeExp > exp4c.py
exp4a.py x exp4b.py x exp4c.py x
1 import math
2
3 def area_of_the_circle (radius):
4     area = radius**2*math.pi
5     return area
6 radius = float(input("Please enter the radius of the given circle: "))
7 print("The area of the given circle is: ",area_of_the_circle(radius))

```

Output:

ManishCollegeExp > exp4c.py

Project

- exp4b.py
- exp4c.py
- main.py
- External Libraries

Run: exp4c

```
C:\Users\manis\AppData\Local\Programs\Python\Python311
Please enter the radius of the given circle: 4
The area of the given circle is: 50.26548245743669
Process finished with exit code 0
```

Program D:

ManishCollegeExp > exp4d.py

Project

- exp4a.py
- exp4b.py
- exp4c.py
- exp4d.py

```
1 pi=3.14
2 d=12
3 r=d/2
4 area_of_the_circle = pi*r*r
5 print("The area of the given circle is: ",area_of_the_circle)
```

Output:

The screenshot shows a Python IDE interface. The top bar indicates the project is 'ManishCollegeExp' and the active file is 'exp4d.py'. The left sidebar shows a project view with files 'exp4b.py', 'exp4c.py', 'exp4d.py' (selected), and 'main.py'. The bottom pane shows the output of running 'exp4d.py'. The output text is: 'C:\Users\manis\AppData\Local\Programs\Python\Python311\p', 'The area of the given circle is: 113.03999999999999', and 'Process finished with exit code 0'.

Practical Performance (4)	Writeup & Oral (4)	Attendance (2)	Total (10)