

Experiment No :- 3

Title: Run a program to read the radius of a circle and print the area.

AIM: Program to print the area of a circle.

THEORY:

Steps:

Get an input from the user using the input () function. Here the input corresponds to the radius of the circle.

Calculate the area of a circle by using the formula $\text{area} = \pi r^2$

Print the output i.e. area of the circle.

INPUT FORMAT:

Input consists of an integer, r, which is the radius of the circle

OUTPUT FORMAT:

Print one line: The area of the circle with 2 decimal precision

Method 1: Area of circle by importing math file :-

Program:

```
import math
r = float(20)
area = math.pi*r*r
print("The area of circle is: ", "%.2f" %area)
```

Output:-

```
[Running] python -u "c:\Users\Aniket\Desktop\Python experiments\experiment no 3.py"
The area of circle is: 1256.64

[Done] exited with code=0 in 0.079 seconds
```

Method 2: Area of circle by directly assigning values to variables :-

Program:-

```
PI = 3.14

r = 10

area = PI*r*r

print("The area of circle is " + str(area))
```

Output:-

```
[Running] python -u "c:\Users\Aniket\Desktop\Python experiments\experiment no 3.py"
The area of circle is 314.0

[Done] exited with code=0 in 0.09 seconds
```

Conclusion:-

Thus we successfully studied the program of area of circle in python.

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