



UITs

UNIVERSITY OF INFORMATION TECHNOLOGY & SCIENCES

Assignment

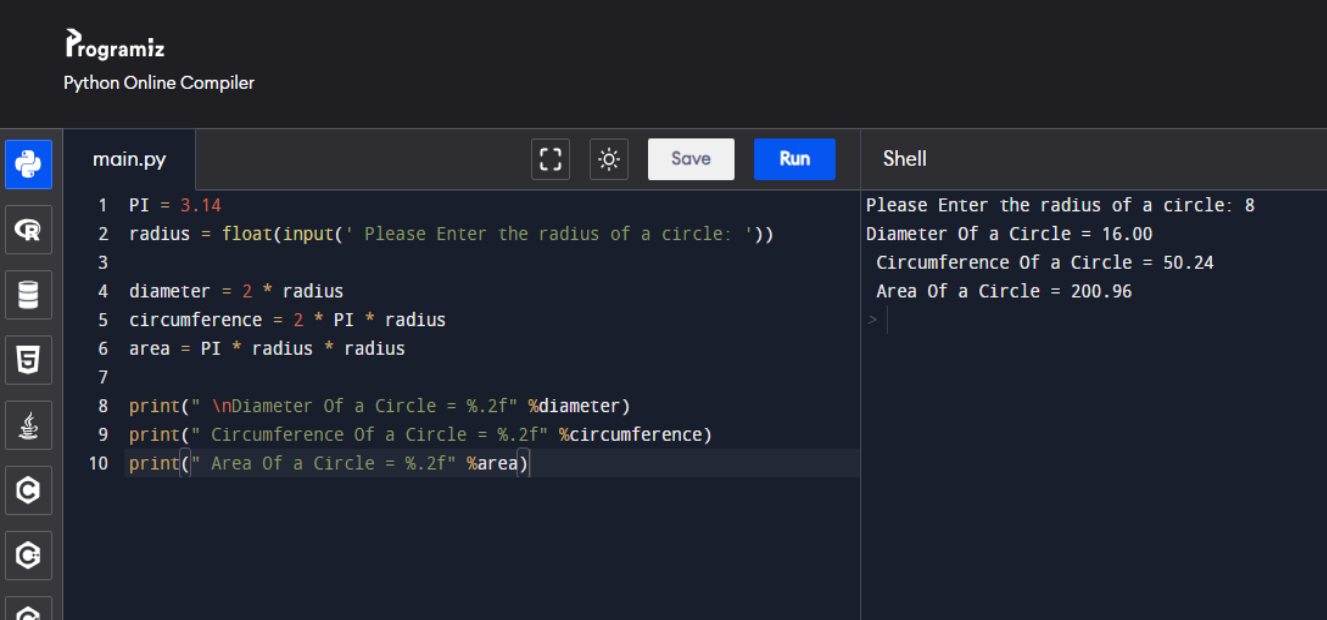
Course Code- CSE 312

Course Title-Artificial Intelligence Lab.

Topic name:Python basic problem solving.

<u>Submitted by-</u>	<u>Submitted to-</u>
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Q.1:Write a python program to enter the radius of a circle and find its diameter , circumference and area.




The screenshot shows the Programiz Python Online Compiler interface. The editor contains a Python script named 'main.py' that calculates the diameter, circumference, and area of a circle based on a user-provided radius. The script uses a constant PI = 3.14 and the input function to get the radius. The output is displayed in the Shell window.

```
1 PI = 3.14
2 radius = float(input(' Please Enter the radius of a circle: '))
3
4 diameter = 2 * radius
5 circumference = 2 * PI * radius
6 area = PI * radius * radius
7
8 print(" \nDiameter Of a Circle = %.2f" %diameter)
9 print(" Circumference Of a Circle = %.2f" %circumference)
10 print(" Area Of a Circle = %.2f" %area)
```

Shell output:

```
Please Enter the radius of a circle: 8
Diameter Of a Circle = 16.00
Circumference Of a Circle = 50.24
Area Of a Circle = 200.96
>
```

Q.2:Write a python program to enter marks of five subjects and Calculate total,average and percentage.



The screenshot shows the Programiz Python Online Compiler interface. The editor contains a Python script named 'main.py' that calculates the total, average, and percentage of five subjects. The script uses variables x, y, z, q, and r to store the marks. The output is displayed in the Shell window.

```
1 x=5
2 y=6
3 z=3
4 q=4
5 r=9
6 sum=(x+y+z+q+r)
7 print(sum)
8 average =sum
9 print(average)
10 percentage = ( average/500) * 100.
11 print(percentage)
```

Shell output:

```
27
27
5.4
>
```