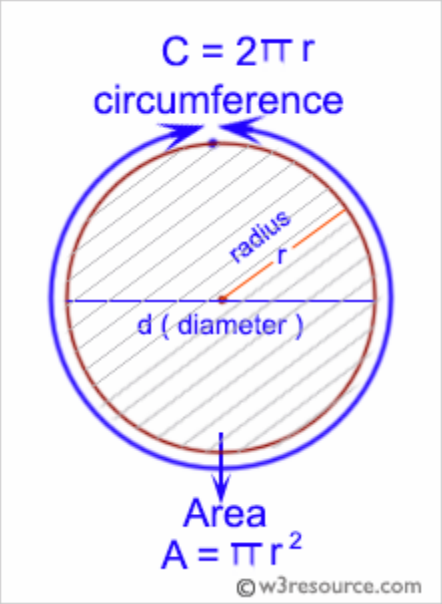
University of Sri Jayewardenepura, Sri Lanka

Bachelor of Information and Communication Technology Semester 1
ITC 1063 – Fundamentals of Programming
Laboratory Exercise 3

Part 1

Write a C program to get the **radius** of a circle as a user input and to **calculate** the **Area** and the **Circumference** of the circle. **Area** and **Circumference** values should be displayed on the console with **two decimal points**.

The following formulas can be used for calculating the area and the circumference of a circle. Consider the value of **π** as **3.14159**.



Sample output:

```
Area and the Circumference Calculator
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Enter the radius of the circle: 10


Area of the circle: 314.16
Circumference of the circle: 62.83
```
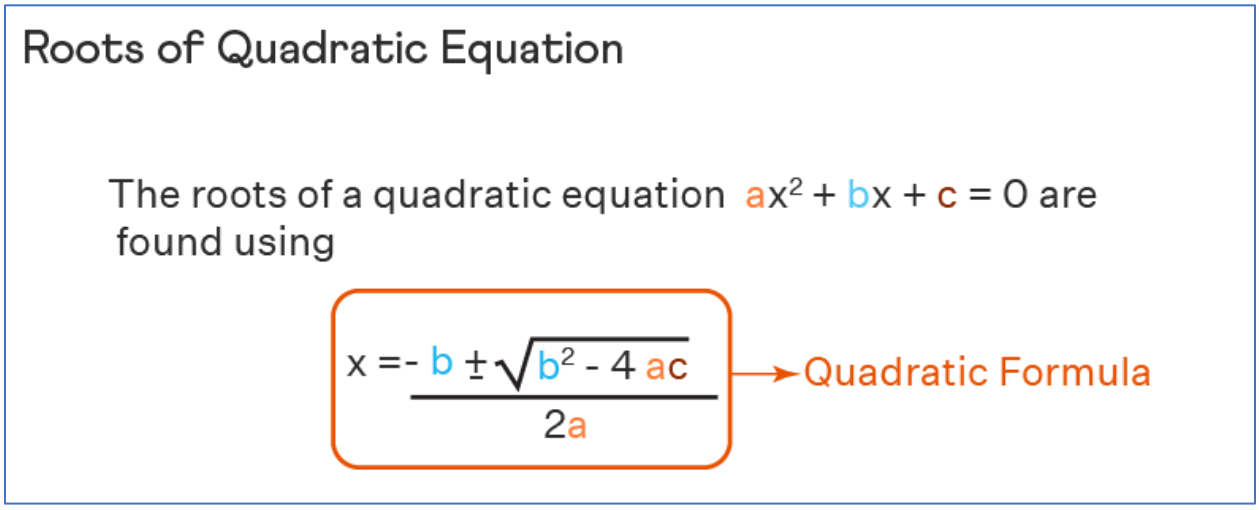

Part 2

Write a C program to calculate the **roots** of the **quadratic equation**. You may use the following formula to do that and coefficients ***a,b*** and ***c*** should be taken as user inputs.



Sample output:

```
Enter coefficient a: 1
Enter coefficient b: -6
Enter coefficient c: 8
Root 1: 4.00
Root 2: 2.00
```