

| **TITLE:** Write a program for:  a. Program to find area and circumference of various Geometric shapes.  b. Program to calculate EMI (Equated Monthly Instalment) of loan amount if principal, rate of  interest and time in years is given by the user.  (E = (P.r.(1+r)n) / ((1+r)n – 1) |
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**AIM:** Write a program for:

a. Program to find area and circumference of various Geometric shapes.

b. Program to calculate EMI (Equated Monthly Instalment) of loan amount if principal, rate of

interest and time in years is given by the user.

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**Expected OUTCOME of Experiment:**

1. Find area and circumference of various Geometric shapes
2. To calculate EMI

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**Books/ Journals/ Websites referred:**

1. Programming in ANSI C, E. Balagurusamy, 7 th Edition, 2016, McGraw-Hill

Education, India.

1. Structured Programming Approach, Pradeep Dey and Manas Ghosh, 1 st

Edition, 2016, Oxford University Press, India.

1. Let Us C, Yashwant Kanetkar, 15th Edition, 2016, BPB Publications, India.

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**Problem Definition:**

**Problem 1:** Area and Circumference of any shape(will be given by instructor) (example Circle)

Ask the user to enter the value of the radius of a circle. Put the values in the formula for finding area of a circle and circumference of a circle and print the outcome for area of a circle and circumference of a circle

**Problem 2:** Calculating EMI Ask the user to enter the value of principal amount, rate of interest and time (in years).Store the value in E and print the final monthly instalment E as an outcome.

Formula to be used: (E = (P.r.(1+r)n) / ((1+r)n – 1)

**Flowchart:**

**Implementation details:**

**Output(s):**

**Conclusion:**

**Post Lab Descriptive Questions**

1. **What are the basic data types in C?**
2. **Write a table for Operator Precedence and Associativity.**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Signature of faculty in-charge**