19CSE100 – Problem Solving and algorithmic thinking- Lab

Date :27.10.2021   Practice Program

(Note: Write a separate program for the following problem)

1. Enter two numbers and perform all arithmetic operations.
2. Write a program to find the area of
   - (a) Square
   - (b) Rectangle
   - (c) Circle
3. Write a program to find the volume of
   - (a) Rectangular Prism
   - (b) Sphere
   - (c) Cylinder
   - (d) Cone
4. Write a program to calculate the speed of the vehicle given distance and time as input.
5. Write a program to convert the rupee to dollar.
6. Input the rainfall of three consecutive days and find its average.
7. Find the simple interest. Inputs are principal amount, period in year and rate of interest.
8. Find the total number of minutes in 12 hours?
9. Accept any three numbers and find their squares and cubes.
10. The speed of a van is 80 km/hour. Find the number of hours required for covering a distance of 500 km?
11. Convert inches into centimetres.
12. Store and interchange two numbers in variables a and b
13. Convert kilograms into grams. 10. Find the total amount when there are five notes of Rs. 100, three notes of Rs. 50 and 20 notes of Rs. 20.
14. Enter the temperature in Fahrenheit and convert it in to Celsius. Formula to be used is tc= ((tf−32)*5)/9 where tc and tf are temperatures in Celsius and Fahrenheit, respectively.
15. Enter radius of a circle and find its diameter, circumference, and area.