## **Basic Programs Questions Part 2**

- Q.1 Write a C program to find the area and circumference of a circle when the radius of the circle is known as given by the user.
- Q.2 Write a C Program to convert a given temperature from Fahrenheit to degree centigrade. Hint: C=(F-32)\*5/9.
- Q.3 Write a C Program to input two numbers and perform all arithmetic operations on them.
- Q.4 Write a C program to enter length in centimeters and convert it into meters and kilometers.
- Q.5 Write a C program to enter marks of five subjects and calculate total, average and percentage.
- Q.6 Write a C program to enter P, T, R and calculate Simple Interest.
- Q.7 Write a C Program to find the damped natural frequency: For a certain electrical circuit with an inductance L and resistance R, the damped natural frequency is given by Frequency= sqrt((1/LC)-(R\*R)/(4\*C\*C)).
- Q.8 Write a C Program for torque formula, where torque is given by Torque = (2\*m1\*m2)\*g/(m1+m2)
- Q.9 Write a C program to prepare payslips using the following data.

  Da = 10% of basic, Hra = 7.50% of basic, Ma = 300, Pf = 12.50% of basic, Gross = basic + Da + Hra + Ma, Nt = Gross Pf.
- Q.10 In inventory management, the economic order quantity for a (5) single item is given by EOQ = sqrt((2\*dr\*sc)/hc) and the optimal time between orders TBO= sqrt((2\*sc)/(dr\*hc)) Write a C program to compute EOQ and TBO ,given demand rate, setup costs, and the holding cost.

Q.11 Write a C program to convert days into years, weeks and days.

Q.12 Write a C Program to find area of an equilateral triangle Formula for the area of equilateral triangle is given by:

$$A = \frac{\sqrt{3}}{4} s^2$$