

Programming in C : Practical 1

1. Write a program to read the graphical characters and print their equivalent ASCII code.
2. Write a program to read ASCII value and print the equivalent character.
3. Write a program to read the value of two variables, compute sum, difference and product.
4. Write a program to calculate result of cb^3/d^2
5. Write a program to read the radius of a sphere and compute surface area and volume.
6. Write a program to read the radius of a circle and compute its area and circumference.
7. Write a program to calculate the sum of given series
$$\text{Sum} = 1 - x^2 / 2! + x^4 / 4! + x^6 / 6! + x^8 / 8! - x^{10} / 10!$$
8. Write a program to read the temperature in centigrade and convert it to Fahrenheit [hint $F = 1.8C + 32$]
9. Write a program to read the principle, time and rate and calculate the interest and total amount.
10. Calculate the mass of air in an automobile tire, using the formula
$$PV = 0.37 m (T + 460)$$

Where P=pressure, V=volume, m=mass, T=temperature
Read the value of P,V,T from the user.
11. Write a program to calculate real and equal roots of a quadratic equation.
12. Write a program to read the weight in gram and convert it to kilogram and gram.

[e.g.: 2076 grams = 2 kilogram and 76 grams]

13. Write a program to use sizeof operator to determine the size of different data types.