**LAB :- 8(Functions)**

**1.Square root of a number**

Given a number A. Return square root of the number if it is perfect square otherwise return -1.

Note: A number is a perfect square if its square root is an integer.

**2.Area of Square**

You are given a positive integer A denoting the side of a square. You have to calculate the area of the square.

Area of a square having side S is given by (S \* S).

**3.Area of Circle**

You are given a positive integer A denoting the radius of a circle. You have to calculate the area of the circle.

**4.Power function**

You are given two integers A and B.You have to find the value of A^B.

**5.Cube It!**

You are given an integer A.You have to find the value of cube of A i.e, A^3.

**6.Volume Of Sphere**

You are given a positive integer A denoting the radius of a sphere. You have to calculate the volume of the sphere.

Volume of a sphere having radius R is given by (4 \* π \* R3) / 3.

NOTE: Since, the answer can be a real number, you have to return the ceil value of the volume. Ceil value of a real number X is the smallest integer that is greater than or equal to X.

**7.Area Of Ellipse**

Given the lengths of semi-major axis A and semi-minor axis B of an ellipse, calculate the Area of the Ellipse.

Area of ellipse having semi-major axis length a and semi-minor axis length b is given by π \* a \* b.

NOTE: Since, the answer can be a real number, you have to return the ceil value of the area. Ceil value of a real number X is the smallest integer that is greater than or equal to X.

**8.Sum the Array**

Write a program to print sum of elements of the input array A of size N.