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.