LAB 4 PROGRAMS

1. Overload volume(), for 3 times to find the volume for cylinder, rectangular box and cube.
2. C++ program to find the area of various geometrical shapes by function overloading.
3. Show the use of inline function to
   A. Find the square of a number
   B. To add two numbers
4. C++ program to print first N natural numbers using inline function

5. Show the use of default argument to add 4 numbers. (as discussed in class)

4.7 *Write a function* ***power()*** *to raise a number* ***m*** *to a power* ***n****. The function takes a* ***double*** *value for* ***m*** *and* ***int*** *value for* ***n****, and returns the result correctly. Use a default value of 2 for n to make the function to calculate squares when this argument is omitted. Write a* ***main*** *that gets the values of* ***m*** *and* ***n*** *from the user to test the function.*

*4.8 *Write a function that performs the same operation as that of Exercise 4.7 but takes an* ***int*** *value for* ***m****. Both the functions should have the same name. Write a* ***main*** *that calls both the functions. Use the concept of function overloading.*