# 02. PROBLEM:

To find the factorial of a given number.

# SOURCECODE:

import java.io.\*;

public class assignment2

{

public static void main(String args[])throws IOException

{

int result=1;

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

System.out.println("Enter the number:");

String str=br.readLine();

int x=Integer.parseInt(str);

for(int i=1;i<=x;i++)

{

result=result\*i;

}

System.out.println("The factorial of "+x+" is:"+result);

}

}

# OUTPUT:

Enter the number:

5

The factorial of 5 is : 120

# DISCUSSION:

1.First here we import io package of java for doing io operations.

2.Then we create class assignment2.In main we take the number from user to factorial.

3.We calculate the factorial using for loop shown in the program.Then we print the ‘result’ object which holds the factorial of the given number.