**4:- Write a program to calculate the factorial of a number using recursion.**

Program:

**package** prac5;

**import** java.util.Scanner;

**public** **class** factorial {

**int** fact=1;

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** res;

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("Enter a number:");

**int** num = sc.nextInt();

factorial f=**new** factorial();

res=f.calfact(num);

System.***out***.println(res);

}

**int** calfact(**int** num) {

**if**(num > 1) {

fact = fact \* num;

**return** calfact(num - 1); // Add return statement here

}

**return** fact;

}

}

Output: 