```
/*Check factorial of a number
Algorithm
   User input
   Forward or backward looping statement
   Multiply the "b" with the every iteration of "i" and store the result in "b"
   Print the result
Source: https://www.youtube.com/watch?v=HWCWqZzHUtw
import java.util.Scanner; // for taking input from user we need to import Scanner class
class Factorial
    int i,b=1;
    void disp()
                                           //creating object of Scanner class and passing
        Scanner n=new Scanner(System.in);
        "System.in" in Scanner constructor as an argument
        System.out.println("Enter your number = ");
        int a=n.nextInt();
                                // nextInt() method used for taking interger input from user.
        for (i=a;i>0;i--)
                                // backward looping statement
            b=b*i;
                        //storing in third variable(b) after multiplying it(b) with the looping
            "i"
        System.out.println("Factorial of "+a+" is = "+b);
        /*for(i=1;i<=a;i++)
                                // forward looping statement
        {
                            ///storing in third variable(b) after multiplying it with the
            looping "i" and third variable "b"
        System.out.println("Factorial of "+a+" is = "+b);*/
    }
}
class Factorial Main
    public static void main(String args[])
        Factorial obj1=new Factorial();
        obj1.disp();
    }
}
```

Output

```
C:\Users\Dhruv\Desktop\Java>java Factorial_Main
Enter your number =
5
Factorial of 5 is = 120
C:\Users\Dhruv\Desktop\Java>java Factorial_Main
Enter your number =
6
Factorial of 6 is = 720
```