

Q.1) Find factorial of a number using Recursive function

```
package Day3LogicTest;
import java.util.Scanner;
//Find factorial of a number using Recursive function
public class FibanoSeries {
    public static int fact(int no){
        int f;
        if(no==1 || no==0)
            return 1;
        else
        {
            f=no*fact(no-1);
            return f;
        }
    }
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the no");
        int no=sc.nextInt();
        int factno=fact(no);
        System.out.println(factno);
    }
}
```

Q.2) Find Fibonacci series in following pattern

```
package Day3LogicTest;

public class fibonacciSeriesPattern {
    public static void main(String[] args) {

        int n=3;
        int a=0,b=1;
        for(int i=1;i<=n;i++){
            for(int j=1;j<=i;j++){
                int c=a+b;
                System.out.print(c+" ");
                a=b;
                b=c;
            }
        }
    }
}
```

```
        System.out.println();
    }

}
}
```

Q 3)Solve following pattern

```
package Day3LogicTest;

public class pattern2 {
    public static void main(String[] args) {
        for (int i = 1; i <= 3; i++) {
            for (int j = i; j <= 3; j++) {
                System.out.print("*");
            }
            System.out.println();
        }
    }
}
```

.4) Print binary of a number in reverse order eg. Input 4 O/P 0 0 1

```
package Day3LogicTest;

import java.util.Scanner;

public class Binary {

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the no:");
        int no=sc.nextInt();

        if(no==0)
            System.out.print("0");
        while (no>0){
            int bit=no%2;
            System.out.print(bit);
            no=no/2;
        }
    }
}
```

}

}

}