Ques 01

```java
package ques01;

import java.util.Scanner;

public class ques01 {


    public static int fact(int n) {
        if (n == 0 || n == 1) {    // base case
            return 1;
        }
        return n * fact(n - 1); // recursive call
    }



    public static void main(String[] args) {

        System.out.println("Enter a number:");
        Scanner sc=new Scanner(System.in);

        int n=sc.nextInt();

        System.out.println(fact(n));

    }

}
```

Ques 02

```java
package ques02;

public class ques02 {


    public static void main(String[] args) {


        int f=0;
        int s=1;
        int c=0;
//        System.out.print(f);
        for(int i=1;i<=3;i++)
        {

            for(int j=i;j>=1;j--)
            {
//                System.out.print("*");
```

```
                                          c=f+s;
                                          System.out.print(" "+c);
                                          f=s;
                                          s=c;


                         }
                         System.out.println();
                  }

           }

}
```

Ques 03

```java
package ques02;

public class ques02 {


       public static void main(String[] args) {


              int f=0;
              int s=1;
              int c=0;
//            System.out.print(f);
              for(int i=1;i<=3;i++)
              {

                     for(int j=i;j>=1;j--)
                     {
//                           System.out.print("*");


                            c=f+s;
                            System.out.print(" "+c);
                            f=s;
                            s=c;


                     }
                     System.out.println();
              }

       }

}
```

Ques 04

```java
package ques04;

import java.util.Scanner;

public class ques04 {

    public static void binary(int n)
    {
        while(n>0)
        {
            int digit=n%2;
            System.out.print(digit+" ");
            n=n/2;
        }
    }
    public static void main(String[] args) {

        System.out.println("Enter a number:");
        Scanner sc=new Scanner(System.in);

        int n=sc.nextInt();

        binary(n);

    }

}
```