

Logic test 2: PRN:046

Q1)

```
import java.util.*;  
  
public class Main  
{  
  
    static int fact(int num){  
        int fact=1;  
        if(num==0 || num==1) return 1;  
  
        for(int i=2;i<=num;i++){  
            fact=i*fact(num-1);  
  
        }  
  
        return fact;  
    }  
  
    public static void main(String[] args) {  
        Scanner sc=new Scanner(System.in);  
        int num=sc.nextInt();  
        int result=fact(num);  
        System.out.println("the factorial of number is:"+result);  
    }  
}
```

Q2)

```
import java.util.*;
public class Main
{
    static void fibopattern(int n){
        int a=0,b=1,c;
        for(int i=1;i<=n;i++){
            for(int j=1;j<=i;j++){
                c=a+b;
                System.out.print(c+" ");
                a=b;
                b=c;
            }
            System.out.println();
        }
    }
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter the no of fibo u want to print");
        int num=sc.nextInt();
        fibopattern(num);
    }
}
```

Q3)

II)

```
import java.util.*;

public class Main

{

    static void starpattern(int n){

        for(int i=n;i>=1;i--){
            for(int j=1;j<=i;j++){
                System.out.print("*");
            }
            System.out.println();
        }

    }

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter the value of n to get * pattern");
        int num=sc.nextInt();
        starpattern(num);
    }
}
```

Q3)

I)

```
import java.util.*;

public class Main

{

    static void numpattern(int n){

        for(int i=n;i>=1;i--){

            //for spaces

            for(int s=1;s<i;s++){

                System.out.print(" ");

            }

            for(int j=n;j>=i;j--){

                System.out.print(j);

            }

            System.out.println();

        }

    }

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.println("enter the value of n to get number pattern");

    }

}
```

```
    int num=sc.nextInt();
    numpattern(num);
}
}
```

Q 4)

```
import java.util.*;
public class Main
{
    static void binaryNolnRev(int num){
        while(num>0){
            int bit=num%2;
            System.out.print(bit+" ");
            num=num/2;
        }
    }
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter the number whoes rev binary number u want ");
        int num=sc.nextInt();
        binaryNolnRev(num);
    }
}
```

}