

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)

1)

```
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 binaryNoInRev(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();

        binaryNoInRev(num);

    }

}

```

}}