

1) Find factorial of a number using Recursive function

```
package mypack;

import java.util.Scanner;

public class Second_test
{
    public static int fact(int num)
    {
        int fact;
        if(num==0 || num==1)
            return 1;
        else
        {
            fact = num*fact(num-1);
            return fact;
        }
    }

    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a number : ");
        int num = sc.nextInt();
        System.out.println(fact(num));
    }
}
```

2) Find Fibonacci series in following pattern 1 2 3 5 8 13

```
package mypack;
```

```
import java.util.Scanner;
```

```
public class Second_test
```

```
{
```

```
    public static void main(String args[])
```

```
    {
```

```
        int a = 1;
```

```
        int b = 2;
```

```
        for(int i=1;i<=3;i++)
```

```
        {
```

```
            for(int j=1;j<=i;j++)
```

```
            {
```

```
                System.out.print(a + " ");
```

```
                int c = a+b;
```

```
                a=b;
```

```
                b=c;
```

```
            }
```

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

```
        }
```

```
    }
```

```
}
```

3) Solve following pattern

```
package mypack;
```

```
import java.util.Scanner;
```

```
public class Second_test
```

```
{
```

```
    public static void main(String args[])
```

```
    {
```

```
        for(int i = 3;i>0;i--)
```

```
        {
```

```
            for(int s =i;s>1;s--)
```

```
            {
```

```
                System.out.print(" ");
```

```
            }
```

```
            for(int j = 3;j>=i;j--)
```

```
            {
```

```
                System.out.print(j);
```

```
            }
```

```
            for(int r = i+1;r<=3;r++)
```

```
            {
```

```
                System.out.print(r);
```

```
            }
```

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

```
        }
```

```
        for(int i = 2;i<=3;i++)
```

```
        {
```

```

        for(int s =i;s>1;s--)
        {
            System.out.print(" ");
        }
        for(int j = 3;j>=i;j--)
        {
            System.out.print(j);
        }
        for(int r = i+1;r<=3;r++)
        {
            System.out.print(r);
        }
        System.out.println();
    }
}

```

```
package mypack;
```

```
import java.util.Scanner;
```

```
public class Second_test
```

```

{
    public static void main(String args[])
    {
        for(int i=3;i>0;i--)
        {

```

```

        for(int j=1;j<=i;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 mypack;
```

```
import java.util.Scanner;
```

```
public class Second_test
```

```

{
    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a number: ");
        int num = sc.nextInt();
        System.out.println("Reverse binary number is : ");
        while(num>0)
        {
            int bit = num%2;

```

```
System.out.print(bit + " ");
```

```
num = num/2;
```

```
}
```

```
}
```

```
}
```