

```
1 import java.util.Scanner;
2 class FactorialNum
3 {
4     static long factorial(int n)
5     {
6         int fact=1;
7         for(int i=n;i>=1;i--)
8         {
9             fact=fact*i;
10        }
11        return fact;
12    }
13    public static void main(String args[])
14    {
15        System.out.println("Name :V.
Jahnavi\nSAP ID:51834788");
16        Scanner sc=new Scanner(System.in);
17        while(true)
18        {
19            System.out.println("Choose your
option\n1.Find factorial of a
number\n2.Exit");
20            int option=sc.nextInt();
21            switch(option)
22            {
23                case 1 :
24                    System.out.println("Enter a
number : ");
25                    int num=sc.nextInt();
26                    System.out.println(FactorialNum.factorial(nu
m));
27                    break;
28                case 2 :
29                    System.out.println("Exited");
30                    System.exit(0);
31                default :
32                    System.out.println("Invalid
input");
33            }
34        }
35    }
36}
37}
```

X Terminal



```
Name :V. Jahnavi
SAP ID:51834788
Choose your option
1.Find factorial of a number
2.Exit
6
Invalid input
Choose your option
1.Find factorial of a number
2.Exit
1
Enter a number :
5
120
Choose your option
1.Find factorial of a number
2.Exit
2
Exited

Process finished.
```

```
1  interface Bank
2  {
3      int getBalance();
4  }
5  class BankA implements Bank
6  {
7      public int getBalance()
8      {
9          return 100;
10     }
11 }
12 class BankB implements Bank
13 {
14     public int getBalance()
15     {
16         return 150;
17     }
18 }
19 class BankC implements Bank
20 {
21     public int getBalance()
22     {
23         return 200;
24     }
25 }
26 class Display
27 {
28     public static void main(String args[])
29     {
30
31         System.out.println("Name :V.Jahnavi\nSAP ID:
32             51834788");
33         Bank a=new BankA();
34         System.out.println("Bank A :
35             "+a.getBalance());
36         Bank b=new BankB();
37         System.out.println("Bank B :
38             "+b.getBalance());|#
39         Bank c=new BankC();
40         System.out.println("Bank C :
41             "+c.getBalance());
42     }
43 }
```

X Terminal



Name :V.Jahnavi
SAP ID:51834788
Bank A : \$100
Bank B : \$150
Bank C : \$200

Process finished.

```
1 import java.util.Scanner;
2 class Pattern
3 {
4     public static void main(String args[])
5     {
6         System.out.println("Name :V.
Jahnavi\nSAP ID:51834788");
7         Scanner sc=new Scanner(System.in);
8         System.out.println("Enter the number of
rows : ");
9         int n=sc.nextInt();
10        for(int i=n;i>=1;i--)
11        {
12            for(int j=n;j>i;j--)
13            {
14                System.out.print(" ");
15            }
16            for(int j=2*i-1;j>=1;j--)
17            {
18                if(j%2==0)
19                {
20                    System.out.print("0");
21                }
22                else
23                {
24                    System.out.print("1");
25                }
26            }
27            System.out.println();
28        }
29    }
30 }
```

X Terminal



```
Name :V. Jahnavi  
SAP ID:51834788  
Enter the number of rows :  
5  
101010101  
1010101  
10101  
101  
1
```

```
Process finished.
```

