

```

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(num));
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 }

```



```
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
2 interface Bank
3 {
4     int getBalance();
5 }
6 class BankA implements Bank
7 {
8     public int getBalance()
9     {
10         return 100;
11     }
12 }
13 class BankB implements Bank
14 {
15     public int getBalance()
16     {
17         return 150;
18     }
19 }
20 class BankC implements Bank
21 {
22     public int getBalance()
23     {
24         return 200;
25     }
26 }
27 class Display
28 {
29     public static void main(String args[])
30     {
31
32         System.out.println("Name :V.Jahnavi\nSAP ID:
33         51834788");
34         Bank a=new BankA();
35         System.out.println("Bank A :
36         $" +a.getBalance());
37         Bank b=new BankB();
38         System.out.println("Bank B :
39         $" +b.getBalance());
40         Bank c=new BankC();
41         System.out.println("Bank C :
42         $" +c.getBalance());
43     }
44 }

```



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 }
```



Name :V. Jahnavi

SAP ID:51834788

Enter the number of rows :

5

101010101

1010101

10101

101

1

Process finished.

