

```
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 : O.Jahnavi\nSAP ");
16        Scanner sc=new Scanner(System.in);
17        while(true)
18        {
19            System.out.println("Choose your option\n");
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 }
38 }
```

```
Name : O.Jahnavi
SAP ID : 51834504
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
1
Enter a number :
15
2004310016
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         System.out.println("Name : O.Jahnavi\nSAP I
31         Bank a=new BankA();
32         System.out.println("Bank A : $" +a.getBalanc
33         Bank b=new BankB();
34         System.out.println("Bank B : $" +b.getBalanc
35         Bank c=new BankC();
36         System.out.println("Bank C : $" +c.getBalanc
37     }
38 }
```

```
1  
2  
3 e();  
4  
5 elements Bank  
6  
7 tBalance()  
8  
9  
10  
11  
12 elements Bank  
13  
14 tBalance()  
15  
16  
17  
18  
19 elements Bank  
20  
21 tBalance()  
22  
23  
24  
25  
26  
27  
28 c void main(String args[] )  
29  
30 .println("Name : O.Jahnavi\nSAP ID : 51834504");  
31 BankA();  
32 .println("Bank A : $" +a.getBalance());  
33 BankB();  
34 .println("Bank B : $" +b.getBalance());  
35 BankC();  
36 .println("Bank C : $" +c.getBalance());  
37  
38  
39
```

Name : O. Jahnavi  
SAP ID : 51834504  
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 : O.Jahnavi\nSAP ID : 10007444");
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 : O. Jahnavi  
SAP ID : 51834504  
Enter the number of rows :  
5  
101010101  
1010101  
10101  
101  
1

Process finished.

```
1 import java.util.Scanner;
2 public class Main
3 {
4     int Id;
5     String Name;
6     int Age;
7     long Salary;
8     void GetData()
9     {
10         Scanner sc = new Scanner(System.in);
11         System.out.print("\n\tEnter Employee Id :");
12         Id = Integer.parseInt(sc.nextLine());
13         System.out.print("\n\tEnter Employee Name");
14         Name = sc.nextLine();
15         System.out.print("\n\tEnter Employee Age :");
16         Age = Integer.parseInt(sc.nextLine());
17         System.out.print("\n\tEnter Employee Salary");
18         Salary = Integer.parseInt(sc.nextLine());
19     }
20     void PutData()
21     {
22         System.out.print("\n\t" + Id + "\t" + Name);
23     }
24     public static void main(String args[])
25     {
26         Scanner sc = new Scanner(System.in);
27         System.out.println("Name : O.Jahnavi\nSAP");
28         Main[] M = new Main[100];
29         int i, j;
30         for(i=0;i<10;i++)
31             M[i] = new Main();
32         for(i=0;true;i++)
33         {
34             System.out.println("Choose your option");
35             int option=sc.nextInt();
36             switch(option)
37             {
38                 case 1 :
39                     System.out.print("Enter details");
```



```
19
20     void PutData()
21     {
22         System.out.print("\n\t" + Id + "\t" + Name
23     }
24     public static void main(String args[])
25     {
26         Scanner sc = new Scanner(System.in);
27         System.out.println("Name : O.Jahnavi\nSAP
28         Main[] M = new Main[100];
29         int i, j;
30         for(i=0;i<10;i++)
31             M[i] = new Main();
32         for(i=0;true;i++)
33         {
34             System.out.println("Choose your option
35             int option=sc.nextInt();
36             switch(option)
37             {
38                 case 1 :
39                     System.out.print("\nEnter details
40                     M[i].GetData();
41                     break;
42                 case 2 :
43                     System.out.print("\nDetails of Empl
44                     for(j=0;j<i;j++)
45                         M[i].PutData();
46                     break;
47                 case 3 :
48                     System.exit(0);
49                 default :
50                     System.out.println("Invalid input
51             }
52
53         }
54
55     }
56 OJ
```

Name : O.Jahnavi  
SAP ID : 51834504

Choose your option

- 1.Add employee details
- 2.Display details
- 3.Exit

1

Enter details of 1 Employee

Enter Employee Id : 123

Enter Employee Name : jahnavi

Enter Employee Age : 19

Enter Employee Salary : 10000

Choose your option

- 1.Add employee details
- 2.Display details
- 3.Exit

3

Process finished.