

```
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        Scanner sc=new Scanner(System.in);
16        System.out.println ("Name:pavan kumar");
17        System.out.println ("Sap id:51834695");
18        while(true)
19        {
20            System.out.println("Choose your option\n1.Fi
21            int option=sc.nextInt();
22            switch(option)
23            {
24                case 1 :
25                    System.out.println("Enter a number : ");
26                    int num=sc.nextInt();
27                    System.out.println(FactorialNum.factoria
28                    break;
29                case 2 :
30                    System.out.println("Exited");
31                    System.exit(0);
32                default :
33                    System.out.println("Invalid input");
34            }
35        }
36    }
37}
38}
```

Name:pavan kumar
Sap id:51834695
Choose your option
1.Find factorial of a number
2.Exit
1
Enter a number :
12
479001600
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:pavan kumar");
31         System.out.println("Sap id:51834695");
32         Bank a=new BankA();
33         System.out.println("Bank A : "+a.getBalance());
34         Bank b=new BankB();
35         System.out.println("Bank B : "+b.getBalance());
36         Bank c=new BankC();
37         System.out.println("Bank C : "+c.getBalance());
38     }
39 }
```

Name:pavan kumar
Sap id:51834695
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         Scanner sc=new Scanner(System.in);
7         System.out.println("Name:pavan kumar");
8         System.out.println ("Sap id:51834695");
9         System.out.println("Enter the number of rows");
10        int n=sc.nextInt();
11        for(int i=n;i>=1;i--)
12        {
13            for(int j=n;j>i;j--)
14            {
15                System.out.print(" ");
16            }
17            for(int j=2*i-1;j>=1;j--)
18            {
19                if(j%2==0)
20                {
21                    System.out.print("0");
22                }
23                else
24                {
25                    System.out.print("1");
26                }
27            }
28            System.out.println();
29        }
30    }
31 }
```

Name:pavan kumar

Sap id:51834695

Enter the number of rows :

5

101010101

1010101

10101

101

1

Process finished.