

```

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.factorial
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.
```