```java
import java.util.Scanner;
class FactorialNum
{
    static long factorial(int n)
    {
        int fact=1;
        for(int i=n;i>=1;i--)
        {
            fact=fact*i;
        }
        return fact;
    }
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println ("Name:pavan kumar");
        System.out.println ("Sap id:51834695");
        while(true)
        {
            System.out.println("Choose your option\n1.Fi
            int option=sc.nextInt();
            switch(option)
            {
                case 1 :
                    System.out.println("Enter a number : ");
                    int num=sc.nextInt();
                    System.out.println(FactorialNum.factoria
                    break;
                case 2 :
                    System.out.println("Exited");
                    System.exit(0);
                default :
                    System.out.println("Invalid input");
            }
        }

    }
}
```

```
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.
```

```java
interface Bank
{
  int getBalance();
}
class BankA implements Bank
{
  public int getBalance()
    {
      return 100;
    }
}
class BankB implements Bank
{
  public int getBalance()
    {
      return 150;
    }
}
class BankC implements Bank
{
  public int getBalance()
    {
      return 200;
    }
}
class Display
{
  public static void main(String args[])
    {
      System.out.println("Name:pavan kumar");
      System.out.println("Sap id:51834695");
      Bank a=new BankA();
      System.out.println("Bank A : $"+a.getBalance()
      Bank b=new BankB();
      System.out.println("Bank B : $"+b.getBalance()
      Bank c=new BankC();
      System.out.println("Bank C : $"+c.getBalance()
    }
}
```

```
Name:pavan kumar
Sap id:51834695
Bank A : $100
Bank B : $150
Bank C : $200

Process finished.
```

```java
import java.util.Scanner;
class Pattern
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Name:pavan kumar");
        System.out.println ("Sap id:51834695");
        System.out.println("Enter the number of rows :
        int n=sc.nextInt();
        for(int i=n;i>=1;i--)
        {
            for(int j=n;j>i;j--)
            {
                System.out.print(" ");
            }
            for(int j=2*i-1;j>=1;j--)
            {
                if(j%2==0)
                {
                    System.out.print("0");
                }
                else
                {
                    System.out.print("1");
                }
            }
            System.out.println();
        }
    }
}
```

```
Name:pavan kumar
Sap id:51834695
Enter the number of rows :
5
101010101
 1010101
  10101
   101
    1

Process finished.
```