```java
import java.util.Scanner;
class Pattern
{
 public static void main(String args[])
 {
  Scanner sc=new Scanner(System.in);
  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();
  }
 }
}
```

Terminal

```
Enter the number of rows :
5
101010101
 10101010
  101010
   1010
    101
```

```
import java.util.Scanner;

public class Main
{
  int Id;
  String Name;
  int Age;
  long Salary;
 void GetData()
  {
 Scanner sc = new Scanner(System.in);
System.out.print("\n\tEnter Employee Id : ");
  Id = Integer.parseInt(sc.nextLine());
System.out.print("\n\tEnter Employee Name : ");
    Name = sc.nextLine();
    System.out.print("\n\tEnter Employee Age : ");
    Age = Integer.parseInt(sc.nextLine());
System.out.print("\n\tEnter Employee Salary : ");
    Salary = Integer.parseInt(sc.nextLine());
  }
  void PutData()
  {
    System.out.print("\n\t" + Id + "\t" +Name + "\t" +A
  }
  public static void main(String args[])
  {
    Main[] M = new Main[10];
    int i;
    for(i=0;i<10;i++)
      M[i] = new Main();
    for(i=0;i<10;i++)
    {
      System.out.print("\nEnter details of "+ (i+1) +" E
      M[i].GetData();
    }
    System.out.print("\nDetails of Employees\n");
    for(i=0;i<3;i++)
      M[i].PutData();
  }
}
```

```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);
  while(true)
  {
   System.out.println("Choose your option\n1.Find fact
   int option=sc.nextInt();
   switch(option)
   {
    case 1:
     System.out.println("Enter a number: ");
     int num=sc.nextInt();
     System.out.println(FactorialNum.factorial(num));
     break;
    case 2:
     System.out.println("Exited");
     System.exit(0);
    default:
     System.out.println("Invalid input");
   }
  }

 }
```

Terminal

```
Choose your option
1.Find factorial of a number
2.Exit
1
Enter a number:
4
```