```
import java.util.*;
class Height
{
    private int feet;
   private int inches;
   public void getDistance()
       Scanner sc=new Scanner(System.in);
       System.out.print("Enter feet: ");
       feet=sc.nextInt();
       System.out.print("Enter inches: ");
       inches=sc.nextInt();
   public void showDistance()
    {
       System.out.println("Feet: "+ feet + "\tInche
    }
    public void addDistance(Height H1, Height H2)
       inches=H1.inches+H2.inches;
       feet=H1.feet+H2.feet+(inches/12);
       inches=inches%12;
    }
public class Main
    public static void main(String []s)
    {
       {
           Height H1=new Height();
           Height H2=new Height();
           Height H3=new Height();
           //read first Height
           System.out.println("Name:Vyshnavisrija")
           System.out.println("Sap id:51834503");
           System.out.println("Enter first Height:
           H1.getDistance();
```

```
public void addDistance(Height H1, Height H2)
          inches=H1.inches+H2.inches;
          feet=H1.feet+H2.feet+(inches/12);
          inches=inches%12;
  }
  public class Main
  {
      public static void main(String []s)
          {
              Height H1=new Height();
              Height H2=new Height();
              Height H3=new Height();
40
              //read first Height
              System.out.println("Name: Vyshnavisrija")
              System.out.println("Sap id:51834503");
              System.out.println("Enter first Height:
              H1.getDistance();
              //read second Height
              System.out.println("Enter second Height:
              H2.getDistance();
              //add heights
              H3.addDistance(H1,H2);
              //print Height
              System.out.println("Total Height is:" );
              H3.showDistance();
          catch (Exception e)
          {
              System.out.println("Exception occurred
          }
62 }
```

```
Name:Vyshnavisrija
Sap id:51834503
Enter first Height:
Enter feet: 6
Enter inches: 20
Enter second Height:
Enter feet: 7
Enter inches: 25
Total Height is:
Feet: 16 Inches: 9

Process finished.
```

```
abstract class Furniture {
  protected String color;
 protected int width;
 protected int height;
 public abstract void accept();
  public abstract void display();
}
     class chair extends Furniture {
 private int numOf_legs;
 public void accept() {
 color = "Black";
 width = 40;
 height = 45;
 numOf_legs = 4;
}
    public void display()
  System.out.println("DISPLAYING VALUE FOR CHAIR")
 System.out.println(
  System.out.println("Color is" + color);
  System.out.println("Width is" + width);
  System.out.println("Height is" + height);
 System.out.println("Number of legs is" + numOf_1
  System.out.println(" ");
 class Bookshelf extends Furniture {
 private int numOf_shelves;
  public void accept() {
   color ="Brown";
  width = 72;
   height = 80;
   numOf\_shelves = 5;
  public void display () {
  System.out.println("DISPLAYING VALUES FOR BOOKS
  System.out.println
```

```
System.out.println("Color is" + color);
     System.out.println("Width is" + width);
     System.out.println("Height is" + height);
     System.out.println("Number of shelves is"
                                                 + num01
50
     System.out.println(" ");
    class FurnitureDemo
     public static void main(String[]
                                       args)
      Bookshelf b1 = new Bookshelf();
      b1.accept();
      b1.display();
60
      chair c1 = new chair ();
      c1.accept();
      c1.display();
64
```


Process finished.

```
import java.util.*;
public class Main
    public static void main(String[] args)
    {
        int i, j, k;
        Scanner sc=new Scanner(System.in);
        System.out.println("Name: Vyshnavisrija");
        System.out.println("Sap id:51834503");
        System.out.println("enter no.of rows");
       int n=sc.nextInt();
        for(i=0; i<n; i++)
          //inotializing k as one
            k=1;
            for(j=0; j<(n+i); j++)
               if(j<n-i-1)
               //prints space in the less than n-i-
                     System.out.print(" ");
                else
                 {
                   // else prints k
                     System.out.print(+ k);
                     if(j<(n-1))
                   // if j is greater than n-1
                   //increases to k+1
                         k++:
                     else
                     //if not k as k-1
                         k--;
                 }
            System.out.println(" ");
```

```
Name:Vyshnavisrija
Sap id:51834503
enter no.of rows
4
1
121
12321
1234321
Process finished.
```

```
import java.util.*;
   class Main
     public static int[] remove(int[] x, int key) {
       List<Integer> result = new ArrayList<>();
       for (int y: x) {
         if (y != key) {
10
           result.add(y);
       }
       return result.stream()
              .mapToInt(Integer::intValue)
              .toArray();
     }
     public static void main(String[] args) {
       int[] x = { 1, 4,6,1,2,3,1, 0};
       int key = 1;
       x = remove(x, key);
       System.out.println("Name: Vyshnavisrija");
       System.out.println ("Sap id:51834503");
       System.out.println(Arrays.toString(x));
     }
```

```
Name:Vyshnavisrija
Sap id:51834503
[4, 6, 2, 3, 0]

Process finished.
```