```java
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 + "\tInches: "+ inches);
  }

  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)
  {
    try
    {

      Height H1=new Height();
      Height H2=new Height();
      Height H3=new Height();

      //read first Height
    System.out.println("Author:K.Sudarshan Reddy\nSAP ID:51834730");
      System.out.println("Enter first Height: ");
      H1.getDistance();

      d Height
      println("Enter second Height: ");
```

File info

```
  {
    inches=H1.inches+H2.inches;
    feet=H1.feet+H2.feet+(inches/12);
    inches=inches%12;
  }
}

public class Main
{
  public static void main(String []s)
  {
    try
    {

      Height H1=new Height();
      Height H2=new Height();
      Height H3=new Height();

      //read first Height
   System.out.println("Author:K.Sudarshan Reddy\nSAP ID:51834730");
      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 :"+ e.toString());
    }
  }
}
```

File info

```
   1
  212
 12321
4321234
123454321

Process finished.
```

```
    {
        int i,j,k;
        for(i=1;i<=5;i++)
        {
            for(j=5;j>i;j--)
            {
                System.out.print(" ");
            }
            if(i%2!=0)
            {
                for(j=1,k=1;j<=2*i-1;j++)
                {
                    if(j<i)
                    {
                        System.out.print(k);
                        k++;
                    }
                    else
                    {
                        System.out.print(k);
                        k--;
                    }
                }
            }
            else
            {
                for(j=1,k=i;j<=2*i-1;j++)
                {
                    if(j<i)
                    {
                        System.out.print(k);
                        k--;
                    }
                    else
                    {
                        System.out.print(k);
                        k++;
                    }
                }
            }
                    System.out.println();
        }
    }
}
```

```java
public class Main
{
    public static void main(String[] args)
    {
        int i,j,k;
        for(i=1;i<=5;i++)
        {
            for(j=5;j>i;j--)
            {
                System.out.print(" ");
            }
            if(i%2!=0)
            {
                for(j=1,k=1;j<=2*i-1;j++)
                {
                    if(j<i)
                    {
                        System.out.print(k);
                        k++;
                    }
                    else
                    {
                        System.out.print(k);
                        k--;
                    }
                }
            }
            else
            {
                for(j=1,k=i;j<=2*i-1;j++)
                {
                    if(j<i)
                    {
                        System.out.print(k);
                        k--;
                    }
                    else
                    {
                        System.out.print(k);
                        k++;
                    }
                }
            }
                    System.out.println();
        }
```

```java
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) {
        result.add(y);
      }
    }

    return result.stream()
          .mapToInt(Integer::intValue)
          .toArray();
  }

  public static void main(String[] args) {
    int[] x = { 1, 4, 1, 3, 1, 2, 1, 0 };
    int key = 1;

    x = remove(x, key);
System.out.println("Author:K.Sudarshan Reddy\nSAP ID:51834730");
    System.out.println(Arrays.toString(x));
  }
}
```

```
DISPLAYING VALUES FOR BOOKSHELF
==========

Color isBlack
Width is72
Height is84
Number of shelves is4

DISPLAYING VALUE FOR CHAIR
==========

Color isBrown
Width is36
Height is48
Number of legs is4


Process finished.
```

```
23   System.out.println("Width is" + width);
24   System.out.println("Height is" + height);
25   System.out.println("Number of legs is" + numOf_legs);
26   System.out.println(" ");
27   }
28  }
29
30  class Bookshelf extends Furniture {
31
32   private int numOf_shelves;
33
34   public void accept()  {
35
36    color ="Black";
37    width = 72;
38    height = 84;
39    numOf_shelves = 4;
40   }
41   public void display ()  {
42    System.out.println("DISPLAYING VALUES FOR BOOKSHELF");
43    System.out.println
```

java---2.java

Saved

```java
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 = "Brown";
 width = 36;
 height = 48;
 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_legs);
 System.out.println(" ");
 }
}

class Bookshelf extends Furniture {

 private int numOf_shelves;

 public void accept()  {

  color ="Black";
  width = 72;
  height = 84;
  numOf_shelves = 4;
 }
 public void display ()  {
  System.out.println("DISPLAYING VALUES FOR BOOKSHELF");
  System.out.println
```

```
Author:K.Sudarshan Reddy
SAP ID:51834730
Enter first Height:
Enter feet: 5
Enter inches: 6
Enter second Height:
Enter feet: 4
Enter inches: 8
Total Height is:
Feet: 10  Inches: 2

Process finished.
```