```
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);
5
6
7
    inches=inches%12;
8
9
  public class Main
0
1
   public static void main(String []s)
2
3
4
5
6
    try
     {
37
      Height H1=new Height();
88
     Height H2=new Height();
     Height H3=new Height();
39
10
      //read first Height
11
      System.out.println("Author:B.Vishnu priya\nSAP
42
   ID:51834736");
      System.out.println("Enter first Height: ");
43
      H1.getDistance();
44
```

```
{
18
     System.out.println("Feet: "+ feet + "\tInches:
19
   "+ inches);
20
21
    public void addDistance(Height H1, Height H2)
22
23
     inches=H1.inches+H2.inches;
24
     feet=H1.feet+H2.feet+(inches/12);
25
     inches=inches%12;
26
27
28
29
   public class Main
30
31
    public static void main(String []s)
32
3
34
35
     try
     {
6
7
     Height H1=new Height();
     Height H2=new Height();
8
     Height H3=new Height();
9
0
     //read first Height
1
     System.out.println("Author:B.Vishnu priya\nSAP
2
  ID:51834736");
     System.out.println("Enter first Height: ");
3
     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());
```

Author:B.Vishnu priya SAP ID:51834736 Enter first Height: Enter feet: 5 Enter inches: 4 Enter second Height: Enter feet: 6 Enter inches: 1 Total Height is: Feet: 11 Inches: 5 Process finished.

```
import java.util.*;
  class Main
   public static int[] remove(int[] x, int key) {
    List<Integer> result = new ArrayList<>();
9
    for (int y: x) {
0
     if (y != key) {
1
2
3
4
5
6
7
      result.add(y);
    return result.stream()
        .mapToInt(Integer::intValue)
        .toArray();
8
   }
9
   public static void main(String[] args) {
0
     int[] x = { 1, 4, 1, 3, 1, 2, 1, 0 };
2
     int key = 1;
13
.4
     x = remove(x, key);
25
     System.out.println("Author:B.Vishnu priya\nSAP
   ID:51834736");
     System.out.println(Arrays.toString(x));
26
27
28
29
```



```
public void accept() {
2
3
    color = "Brown";
4
5
    width = 36;
    height = 48;
6
7
    numOf_legs = 4;
8
      public void display() {
9
    System.out.println("DISPLAYING VALUE FOR
20
  CHAIR");
21
  =====");
    System.out.println("Color is" + color);
    System.out.println("Width is" + width);
23
    System.out.println("Height is" + height);
4
    System.out.println("Number of legs is" +
  numOf_legs);
    System.out.println(" ");
6
7
8
   }
9
   class Bookshelf extends Furniture {
0
    private int numOf_shelves;
234567890
    public void accept() {
     color ="Black";
     width = 72;
     height = 84;
     numOf shelves = 4;
    public void display () {
     System.out.println("DISPLAYING VALUES FOR
2
  BOOKSHELF");
     System.out.println
3
    ("=========");
4
5
6
7
    System.out.println("Color is" + color);
    System.out.println("Width is" + width);
    System.out.println("Height is" + height);
8
    System.out.println("Number of shelves is" +
  numOf_shelves);
    System.out.println(" ");
```

```
public void display () {
   System.out.println("DISPLAYING VALUES FOR
BOOKSHELF");
  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" +
numOf_shelves);
 System.out.println(" ");
 }
class FurnitureDemo
 public static void main(String[] args)
  Bookshelf b1 = new Bookshelf();
  b1.accept();
  b1.display();
  chair c1 = new chair ();
  c1.accept();
  c1.display();
```

1

2

3

4

6

8

9

0

2

3

4

5

```
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.
```

```
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 \le 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);
5
6
7
                           k--;
                      }
                      else
8
9
10
12
13
14
15
                      {
                           System.out.print(k);
                           k++;
                  }
             }
               System.out.println();
         }
46
    }
```

| 1<br>212<br>12321<br>4321234<br>123454321 |                       |
|---|-----------------------|
| Process finished.                         |                       |
|   |                       |
|   |                       |
|   |                       |
|   |                       |
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