```java
1   import java.util.*;
2
3   class Height
4   {
5       private int feet;
6       private int inches;
7
8       public void getDistance()
9       {
10          Scanner sc=new Scanner(System.in);
11
12          System.out.print("Enter feet: ");
13          feet=sc.nextInt();
14          System.out.print("Enter inches: ");
15          inches=sc.nextInt();
16
17      }
18      public void showDistance()
19      {
20          System.out.println("Feet: "+ feet + "\tInches: "+ inches);
21      }
22
23      public void addDistance(Height H1, Height H2)
24      {
25          inches=H1.inches+H2.inches;
26          feet=H1.feet+H2.feet+(inches/12);
27          inches=inches%12;
28
29      }
30  }
31
32  public class Main
33  {
34      public static void main(String []s)
35      {
36          System.out.println("Name:G.vyshnavi,SAP ID:51834743");
37              try
```

: Make public 🌐

▶

```java
public class Main

    public static void main(String []s)
    {
        System.out.println("Name:G.vyshnavi,SAP ID:51834743");
        try
        {

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

            //read first Height
            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()).

        }

    }
```

Name:G.vyshnavi,SAP ID:51834743
Enter first Height:
Enter feet: 7
Enter inches: 7
Enter second Height:
Enter feet: 5
Enter inches: 5.5
Exception occurred :java.util.InputMismatchException

Process finished.

```java
1   abstract class Furniture {
2
3       protected String color;
4       protected int width;
5       protected int height;
6       public abstract void accept();
7       public abstract void display();
8   }
9       class chair extends Furniture {
10      private int numOf_legs;
11
12      public void accept() {
13
14      color = "Black";
15      width = 44;
16      height = 46;
17      numOf_legs = 4;
18  }
19       public void display()   {
20      System.out.println("DISPLAYING VALUE FOR CHAIR");
21      System.out.println("Color is" + color);
22      System.out.println("Width is" + width);
23      System.out.println("Height is" + height);
24      System.out.println("Number of legs is" + numOf_legs);
25      System.out.println(" ");
26  }
27  }
28
29  class Bookshelf extends Furniture {
30
31      private int numOf_shelves;
32
33      public void accept()  {
34
35      color ="Green";
36      width = 56;
37      height = 70;
```

```java
28
29  class Bookshelf extends Furniture {
30
31   private int numOf_shelves;
32
33   public void accept() {
34
35    color ="Green";
36    width = 56;
37    height = 70;
38    numOf_shelves = 6;
39  }
40   public void display () {
41    System.out.println("DISPLAYING VALUES FOR BOOKSHELF");
42
43    System.out.println("Color is" + color);
44    System.out.println("Width is" + width);
45    System.out.println("Height is" + height);
46    System.out.println("Number of shelves is" + numOf_shelves);
47    System.out.println(" ");
48  }
49 }
50
51  class FurnitureDemo {
52   public static void main(String[] args)  {
53     System.out.println("Name:G.vyshnavi,SAP ID:51834743");
54    Bookshelf b1 = new Bookshelf();
55    b1.accept();
56    b1.display();
57
58
59    chair c1 = new chair ();
60    c1.accept();
61    c1.display();
62
63 }
64 }
65
```

Name:G.vyshnavi,SAP ID:51834743
DISPLAYING VALUES FOR BOOKSHELF
Color isGreen
Width is56
Height is70
Number of shelves is6

DISPLAYING VALUE FOR CHAIR
Color isBlack
Width is44
Height is46
Number of legs is4

Process finished.

```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) {
    System.out.println("Name:G.vyshnavi,SAP ID:51834743");
    int[] x = { 1,4,3,5,7,8,3,2 };
    int key = 3;

    x = remove(x, key);
    System.out.println(Arrays.toString(x));
  }
}
```

```
Name:G.vyshnavi,SAP ID:51834743
[1, 4, 5, 7, 8, 2]

Process finished.
```

```java
1  public class Main
2  {
3      public static void main(String[] args)
4      {
5        System.out.println("Name:G.vyshnavi,SAP ID:51834743");
6          int i,j,k;
7          for(i=1;i<=5;i++)
8          {
9              for(j=5;j>i;j-)
10             {
11                 System.out.print(" ");
12             }
13             if(i%2!=0)
14             {
15                 for(j=1,k=1;j<=2*i-1;j++)
16                 {
17                     if(j<i)
18                     {
19                         System.out.print(k);
20                         k++;
21                     }
22                     else
23                     {
24                         System.out.print(k);
25                         k-;
26                     }
27                 }
28             }
29             else
30             {
31                 for(j=1,k=i;j<=2*i-1;j++)
32                 {
33                     if(j<i)
34                     {
35                         System.out.print(k);
36                         k-;
37                     }
```

```java
14      {
15          for(j=1,k=1;j<=2*i-1;j++)
16          {
17              if(j<i)
18              {
19                  System.out.print(k);
20                  k++;
21              }
22              else
23              {
24                  System.out.print(k);
25                  k-;
26              }
27          }
28      }
29      else
30      {
31          for(j=1,k=i;j<=2*i-1;j++)
32          {
33              if(j<i)
34              {
35                  System.out.print(k);
36                  k-;
37              }
38              else
39              {
40                  System.out.print(k);
41                  k++;
42              }
43          }
44      }
45              System.out.println();
46      }
47  }
48 }
```

Scanned with CamScanner

```
Name:G.vyshnavi,SAP ID:51834743
    1
   212
   12321
  4321234
 123454321

Process finished.
```