

```
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     public void showDistance()
```

```
17 public void showDistance()  
18 {  
19     System.out.println("Feet: "+ feet + "\tInches: "+ inches);  
20 }  
21  
22 public void addDistance(Height H1, Height H2)  
23 {  
24     inches=H1.inches+H2.inches;  
25     feet=H1.feet+H2.feet+(inches/12);  
26     inches=inches%12;  
27 }  
28 }  
29  
30 public class Main  
31 {  
32     public static void main(String []s)  
33     {
```

```

34     try
35     {
36
37         Height H1=new Height();
38         Height H2=new Height();
39         Height H3=new Height();
40
41         //read first Height
42         System.out.println("Author:P.Kathyayani\nSAP ID:51834723");
43         System.out.println("Enter first Height: ");
44         H1.getDistance();
45
46         //read second Height
47         System.out.println("Enter second Height: ");
48         H2.getDistance();
49
50         //read third Height

```

```
50         //add heights
51         H3.addDistance(H1,H2);
52         //print Height
53         System.out.println("Total Height is:" );
54         H3.showDistance();
55     }
56     catch (Exception e)
57     {
58         System.out.println("Exception occurred :"+ e.toString());
59     }
60 }
61 }
```

```
Author:P.Kathyayani
SAP ID:51834723
Enter first Height:
Enter feet: 23
Enter inches: 34
Enter second Height:
Enter feet: 34
Enter inches: 23
Total Height is:
Feet: 61Inches: 9

Process finished.
```

```
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
10     class chair extends Furniture {
11         private int numOf_legs;
12
13         public void accept() {
14
15             color = "Brown";
16             width = 36;
17             height = 48;
18             numOf_legs = 4;
```

```

17     numOf_legs = 4;
18 }
19     public void display()    {
20
21     System.out.println("DISPLAYING VALUE FOR CHAIR");
22     System.out.println("=====");
23     System.out.println("Color is" + color);
24     System.out.println("Width is" + width);
25     System.out.println("Height is" + height);
26     System.out.println("Number of legs is" + numOf_legs);
27     System.out.println(" ");
28     }
29 }
30
31 class Bookshelf extends Furniture {
32
33     private int numOf_shelves;

```

```

35 public void accept() {
36
37     color = "Black";
38     width = 72;
39     height = 84;
40     numOf_shelves = 4;
41 }
42 public void display () {
43     System.out.println("DISPLAYING VALUES FOR BOOKSHELF");
44     System.out.println
45     ("=====");
46
47     System.out.println("Color is" + color);
48     System.out.println("Width is" + width);
49     System.out.println("Height is" + height);
50     System.out.println("Number of shelves is" + numOf_shelves);
51     System.out.println(" ");

```



Make public



```

51     system.out.println(    ),
52 }
53 }
54
55 class FurnitureDemo {
56     public static void main(String[] args) {
57         Bookshelf b1 = new Bookshelf();
58         b1.accept();
59         b1.display();
60
61
62         chair c1 = new chair ();
63         c1.accept();
64         c1.display();
65
66     }
67 }

```

## 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.

```
1 import java.util.*;
2
3 class Main
4 {
5     public static int[] remove(int[] x, int key) {
6
7         List<Integer> result = new ArrayList<>();
8
9         for (int y: x) {
10             if (y != key) {
11                 result.add(y);
12             }
13         }
14
15         return result.stream()
16             .mapToInt(Integer::intValue)
17             .toArray();
18     }
19
20     public static void main(String[] args) {
21         int[] x = { 1, 4, 1, 3, 1, 2, 1, 0 };
22         int key = 1;
23
24         x = remove(x, key);
25         System.out.println("Author:P.Kathyayani");
26         System.out.println("SAP ID:51834723");
27         System.out.println(Arrays.toString(x));
28     }
29 }
```

✕ Terminal



```
Author:P.Kathyayani
SAP ID:51834723
[4, 3, 2, 0]
```

```
Process finished.
```

```

1 public class Main
2 {
3     public static void main(String[] args)
4     {
5         int i,j,k;
6         for(i=1;i<=5;i++)
7         {
8             for(j=5;j>i;j--)
9             {
10                System.out.print(" ");
11            }
12            if(i%2!=0)
13            {
14                for(j=1, k=1; j<=2*i-1; j++)
15                {
16                    if(j<i)
17                    {
18                        System.out.print(k);
19                        k++;
20                    }
21                    else
22                    {
23                        System.out.print(k);
24                        k--;
25                    }
26                }
27            }
28            else
29            {
30                for(j=1, k=i; j<=2*i-1; j++)
31                {
32                    if(j<i)
33                    {
34                        System.out.print(k);
35                        k--;
36                    }
37                    else
38                    {
39                        System.out.print(k);
40                        k++;
41                    }

```

```
42     }  
43     }  
44     System.out.println();  
45     }  
46     }  
47 }
```

```
    1
  212
12321
4321234
123454321
```

Process finished.



315.java

Saved

```
1  import java.util.Scanner;
2
3  public class DemoTranslation {
4  public static void main(String[] args) {
5  int n;
6  float sum;
7  int count;
8
9
10
11 System.out.print("\nEnter total number of terms :: ");
12 n = STDIN_SCANNER.nextInt();
13
14
15 sum = 0.0f;
16
```

```
17
18 count = 1;
19 for(int i = 1; i <= n; i++) {
20 sum = sum + (float)Math.pow(count, 2) / (float)Math.pow(count, 3);
21 count += 2;
22 }
23
24 System.out.printf("\nSum of the series is :: %f\n", sum);
25 }
26
27 public final static Scanner STDIN_SCANNER = new Scanner(System.in);
28 }
```





Enter total number of terms :: 3

Sum of the series is :: 1.533333

Process finished.