

```

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        }
45    }

```

TAB

{

}

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RUN





## OUTPUT

1

212

12321

4321234

123454321

```

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()
18     {
19         System.out.println("Feet: "+ feet +
20 "\tInches: "+ inches);
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: D. Aditya

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RUN





# Code Playground



```
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:Nancy
Florence\nSAP ID:51834501");
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             //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 }
```

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RUN





# Code Playground



```
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:Nancy
26 Florence\nSAP ID:51834501");
27         System.out.println(Arrays.toString(x));
28     }
29 }
```

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}

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RUN





## OUTPUT

Author:Nancy Florence

SAP ID:51834501

[4, 3, 2, 0]

```

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
12         private int numOf_legs;
13
14         public void accept() {
15
16             color = "Brown";
17             width = 36;
18             height = 48;
19             numOf_legs = 4;
20         }
21
22         public void display() {
23             System.out.println("DISPLAYING VALUE FOR
CHAIR");
24
25             System.out.println("=====
=====");
26
27             System.out.println("Color is" + color);
28             System.out.println("Width is" + width);
29             System.out.println("Height is" + height);
30             System.out.println("Number of legs is" +
numOf_legs);
31             System.out.println(" ");
32         }
33     }
34
35     class Bookshelf extends Furniture {
36
37         private int numOf_shelves;
38
39         public void accept() {
40
41             color ="Black";
42             width = 72;
43             height = 84;
44             numOf_shelves = 4;

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RUN







# Code Playground



```
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
44         ("=====");
45
46         System.out.println("Color is" + color);
47         System.out.println("Width is" + width);
48         System.out.println("Height is" + height);
49         System.out.println("Number of shelves is" +
numOf_shelves);
50         System.out.println(" ");
51     }
52 }
53
54 class FurnitureDemo {
55     public static void main(String[] args) {
56         Bookshelf b1 = new Bookshelf();
57         b1.accept();
58         b1.display();
59
60
61         chair c1 = new chair ();
62         c1.accept();
63         c1.display();
64
65     }
66 }
```

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RUN







## OUTPUT

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



```
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
12         terms :: ");
13
14         n = STDIN_SCANNER.nextInt();
15
16
17         sum = 0.0f;
18
19         count = 1;
20         for(int i = 1; i <= n; i++) {
21             sum = sum + (float)Math.pow(count, 2) /
22             (float)Math.pow(count, 3);
23             count += 2;
24         }
25
26         System.out.printf("\nSum of the series is ::
27         %f\n", sum);
28     }
29
30     public final static Scanner STDIN_SCANNER = new
31     Scanner(System.in);
32 }
```





## OUTPUT

Enter total number of terms ::

Exception in thread "main"

java.util.NoSuchElementException

at java.base/

java.util.Scanner.throwFor(Scanner.java:  
937)

at java.base/

java.util.Scanner.next(Scanner.java:  
1594)

at java.base/

java.util.Scanner.nextInt(Scanner.java:  
2258)

at java.base/

java.util.Scanner.nextInt(Scanner.java:  
2212)

at

DemoTranslation.main(DemoTranslation.jav  
a:12)