

J2.java Saved

```
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 + "\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();
34
35             //read first Height
36             System.out.println("Author:k.jithendra");
37             System.out.println("Enter first Height: ");
38             H1.getDistance();
39
36             //read second Height
37             System.out.println("Enter second Height: ");
38             H2.getDistance();
39
36             //add heights
37             H3.addDistance(H1,H2);
38             //print Height
39             System.out.println("Total Height is: " );
34             H3.showDistance();
35         }
36     }
37 }
```

Terminal

```
Author:k.jithendra
Enter first Height:
Enter feet:
```

```
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     }
}
```

x Terminal

```
1
212
12321
4321234
123454321
```

```
Process finished.
```

J2.java

→ :

```
1 act class Furniture {  
2  
3     tected String color;  
4     tected int width;  
5     tected int height;  
6     lic abstract void accept();  
7     lic abstract void display();  
8  
9     class chair extends Furniture {  
10        vate int numOf_legs;  
11  
12        lic void accept() {  
13  
14            or = "Brown";  
15            th = 36;  
16            ght = 48;  
17            Of_legs = 4;  
18  
19        ublic void display() {  
20            tem.out.println("DISPLAYING VALUE FOR CHAIR");  
21            tem.out.println("=====");  
22            tem.out.println("Color is" + color);  
23            tem.out.println("Width is" + width);  
24            tem.out.println("Height is" + height);  
25            tem.out.println("Number of legs is" + numOf_legs);  
26            tem.out.println(" ");  
27  
28  
29  
30        s Bookshelf extends Furniture {  
31  
32            vate int numOf_shelves;  
33  
34            lic void accept() {  
35  
36                or ="Black";  
37                dth = 72;  
38                ight = 84;  
39                mOf_shelves = 4;  
40  
41            lic void display () {  
42                stem.out.println("DISPLAYING VALUES FOR BOOKSHEL");  
43                stem.out.println("=====");  
44  
45                tem.out.println("Color is" + color);  
46                tem.out.println("Width is" + width);  
47                tem.out.println("Height is" + height);  
48                tem.out.println("Number of shelves is" + numOf_s);  
49                tem.out.println(" ");  
50  
51  
52  
53  
54        s FurnitureDemo {  
55            lic static void main(String[] args) {  
56                okshelf b1 = new Bookshelf();  
57                .accept();
```

X Terminal



```
DISPLAYING VALUES FOR BOOKSHELF  
=====  
Color isBlack  
Width is72  
Height is84  
Number of shelves is4
```