

```
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         System.out.println("Question no:1\nAuthor :B.padma");
35         try
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("Enter first Height: ");
43             H1.getDistance();
44
45             //read second Height
46             System.out.println("Enter second Height: ");
47             H2.getDistance();
48
49             //add heights
50             H3.addDistance(H1,H2);
51             //print Height
52             System.out.println("Total Height is:" );
53             H3.showDistance();
54         }
55         catch (Exception e)
56         {
57             System.out.println("Exception occurred :" + e.to
58         }
59     }
60 }
61 }
```

x

Terminal



```
Question no:1
Author:B.padmasai
Sap id:51834617
Enter first Height:
Enter feet: 5
Enter inches: 6
Enter second Height:
Enter feet: 4
Enter inches: 8
Total Height is:
Feet: 10 Inches: 2
```

```
Process finished.
```

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```

```
1 import java.util.Scanner;
2 class Furniture extends Fur{
3     public static void main(String args[])
4     {
5         System.out.println("Question no:2\nAuthor:B.padmasa");
6         Scanner scan = new Scanner(System.in);
7         System.out.println("Welcome to furniture world");
8         System.out.println("enter your name");
9         String name = scan.nextLine();
10        System.out.println("customer name: "+name);
11        Fur s = new Fur();
12        s.getInput();
13    }
14 }
15 class Fur{
16     Scanner scan = new Scanner(System.in);
17     int choice;
18     public void getInput(){
19         System.out.println("select one option:");
20         System.out.println("1.Make an order");
21         System.out.println("2.exit");
22         System.out.println("enter any option");
23         int choice = scan.nextInt();
24         switch (choice){
25             case 1:
26                 getDetails();
27                 break;
28             case 2:
29                 System.out.println("Thank you for visiting");
30                 break;
31             default:
32                 System.out.println("enter valid option");
33         }
34     }
35     public void getDetails(){
36         System.out.println("Furniture World");
37         System.out.println("Available stock");
38         System.out.println("1.Chair");
39         System.out.println("2.beds");
40         System.out.println("3.shelves");
41         System.out.println("enter any option");
42         choice=scan.nextInt();
43         switch(choice){
44             case 1:
45                 getChair();
46                 getInput();
47                 break;
48             case 2:
49                 getBed();
50                 getInput();
51                 break;
52             case 3:
53                 getShelves();
54                 getInput();
55             default:
56                 System.out.println("enter valid option");
57         }
58     }
59 }
60 }
61 public void getChair(){
62     System.out.println("which type of chair you want");
63     String type = scan.nextLine();
64     System.out.println("any specifications or changes(if any)");
65     String spec = scan.nextLine();
66     System.out.println("How many number of chairs");
67     int num = scan.nextInt();
68     System.out.println("TYPE , SPECIFICATIONS , NUMBER");
69     System.out.println(type+" "+spec+" "+num);
70 }
71 public void getBed(){
72     System.out.println("which type of bed you want");
73     String typ = scan.nextLine();
74     System.out.println("any specifications or changes(if any)");
75     String spe = scan.nextLine();
76     System.out.println("How many number of beds");
77     int nu = scan.nextInt();
78     System.out.println("TYPE , SPECIFICATIONS , NUMBER");
79     System.out.println(typ+" "+spe+" "+nu);
80 }
81 public void getShelves(){
82     System.out.println("which type of shelve you want");
83     String types = scan.nextLine();
84     System.out.println("any specifications or changes(if any)");
85     String specs = scan.nextLine();
86     System.out.println("How many number of shelves");
87     int numb = scan.nextInt();
88     System.out.println("TYPE , SPECIFICATIONS , NUMBER");
89     System.out.println(types+" "+specs+" "+numb);
90 }
91 }
```



```
Question no:2
Author:B.padmasai
Sap id:51834617
Welcome to furniture world
enter your name
sai
customer name: sai
select one option:
1.Make an order
2.exit
enter any option
1
Furniture World
Available stock
1.Chair
2.beds
3.shelves
enter any option
2
which type of bed you want
any specifications or changes(if no please enter)
no
How many number of beds
2
TYPE , SPECIFICATIONS , NUMBER
no 2
select one option:
1.Make an order
2.exit
enter any option
```

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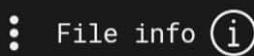
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```
1 public class Main
2 {
3     public static void main(String[] args)
4     {
5         System.out.println("Question no:4\nAuthor:B.padm
6             int i,j,k;
7             for(i=1;i<=5;i++)
8             {
9                 for(j=5;j>i;j--)
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                    }
38                    else
39                    {
39                        System.out.print(k);
40                        k++;
41                    }
42                }
43            }
44        }
45        System.out.println();
46    }
47 }
48 }
```

 File info 



```
Question no:4  
Author:B.padmasai  
Sap id:51834617  
1  
212  
12321  
4321234  
123454321
```

```
Process finished.
```

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```
1 import java.util.Scanner;
2
3 public class DemoTranslation
4 {
5     public static void main(String[] args)
6     {
7         System.out.println("Question no:5\nAuthor:B.padhi");
8         int n;
9         float sum;
10        int count;
11        System.out.print("Enter total number of terms : ");
12        n = STDIN_SCANNER.nextInt();
13        sum = 0.0f;
14        count = 1;
15        for(int i = 1; i <= n; i++)
16        {
17            sum = sum + (float)Math.pow(count, 2) / (float)Mat
18            count += 2;
19        }
20        System.out.printf("Sum of the series is: %f", sum);
21    }
22    public final static
23    Scanner STDIN_SCANNER = new Scanner(System.in);
24 }
```



x Terminal



Question no:5
Author:B.padmasai
Sap id:51834617
Enter total number of terms : 3
Sum of the series is: 1.533333
Process finished.

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