

```
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         System.out.print("Enter feet: ");
12         feet=sc.nextInt();
13         System.out.print("Enter inches: ");
14         inches=sc.nextInt();
15     }
16     public void showDistance()
17     {
18         System.out.println("Feet: "+ feet + "\tInches: " + inches);
19     }
20
21     public void addDistance(Height H1, Height H2)
22     {
23         inches=H1.inches+H2.inches;
24         feet=H1.feet+H2.feet+(inches/12);
25         inches=inches%12;
26     }
27 }
28
29 public class Main
30 {
31     public static void main(String []s)
32     {
33         try
34         {
35
36             Height H1=new Height();
37             Height H2=new Height();
38             Height H3=new Height();
39
40             System.out.println("Author : J Sri Sai Mandala");
41             System.out.println("SAP ID : 51834596");
42             System.out.println("Enter first Height: ");
43             H1.getDistance();
44
45             System.out.println("Enter second Height: ");
46             H2.getDistance();
47
48             H3.addDistance(H1,H2);
49
50             System.out.println("Total Height is:" );
51             H3.showDistance();
52         }
53         catch (Exception e)
54         {
55             System.out.println("Exception occurred :" + e);
56         }
57     }
58 }
```

X Terminal



```
Author : J Sri Sai Manoj
SAP ID : 51834596
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.

```

1 import java.util.Scanner;
2 class Furniture extends Fur
3 {
4 public static void main(String args[])
5 {
6 Scanner scan = new Scanner(System.in);
7 System.out.println("Author : J Sri Sai Manoj");
8 System.out.println("SAP ID : 51834596");
9 System.out.println("Welcome to furniture world")
10 System.out.println("Enter your name:");
11 String name = scan.nextLine();
12 System.out.println("customer name: "+name);
13 Fur s = new Fur();
14 s.getInput();
15 }
16 }
17 class Fur
18 {
19     Scanner scan = new Scanner(System.in);
20     int choice;
21 public void getInput()
22 {
23 System.out.println("select one option:");
24 System.out.println("1.Make an order");
25 System.out.println("2.exit");
26 System.out.println("Enter any option");
27 int choice = scan.nextInt();
28 switch (choice)
29 {
30     case 1:
31         getDetails();
32         break;
33     case 2:
34         System.out.println("Thank you for visiting our store");
35         break;
36     default:
37         System.out.println("Enter valid option")
38 }
39 }
40 public void getDetails()
41 {
42 System.out.println("Furniture World");
43 System.out.println("Available stock");
44 System.out.println("1.Chair");
45 System.out.println("2.beds");
46 System.out.println("3.shelves");
47 System.out.println("Enter any option");
48 choice=scan.nextInt();
49 switch(choice)
50 {
51 case 1:
52     getChair();
53     getInput();
54     break;
55 case 2:
56     getBed();
57     getInput();
58     break;
59 case 3:
60     getShelves();
61     getInput();
62     default:
63         System.out.println("Enter valid option");
64 }
65 }
66 public void getChair()
67 {
68 scan.nextLine();
69 System.out.println("Which type of chair you want");
70 String type = scan.nextLine();
71 System.out.println("Any specifications or changes");
72 String spec = scan.nextLine();
73 System.out.println("How many number of chairs: ");
74 int num = Integer.parseInt(scan.nextLine());
75 System.out.println("TYPE , SPECIFICATIONS , NUMBER");
76 System.out.println(type+" "+spec+" "+num);
77 }
78 public void getBed()
79 {
80 scan.nextLine();
81 System.out.println("Which type of bed you want");
82 String typ = scan.nextLine();
83 System.out.println("Any specifications or changes");
84 String spe = scan.nextLine();
85 System.out.println("How many number of beds: ");
86 int nu = scan.nextInt();
87 System.out.println("TYPE , SPECIFICATIONS , NUMBER");
88 System.out.println(typ+" "+spe+" "+nu);
89 }
90 public void getShelves()
91 {
92 scan.nextLine();
93 System.out.println("Which type of shelve you want");
94 String types = scan.nextLine();
95 System.out.println("Any specifications or changes");
96 String specs = scan.nextLine();
97 System.out.println("How many number of shelves: ");
98 int numb = scan.nextInt();
99 System.out.println("TYPE , SPECIFICATIONS , NUMBER");
100 System.out.println(types+" "+specs+" "+numb);
101 }
102 }

```

X Terminal



```
Author : J Sri Sai Manoj
SAP ID : 51834596
Welcome to furniture world
Enter your name:
manoj
customer name: manoj
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:
spring
Any specifications or changes(if no please)
no
How many number of beds:
1
TYPE , SPECIFICATIONS , NUMBER
spring no 1
select one option:
1.Make an order
2.exit
Enter any option
2
Thank you for visiting

Process finished.
```

```
1 public class Pattern
2 {
3     public static void main(String[] args) {
4         System.out.println("Author : J Sri Sai ManoJ")
5         System.out.println("SAP ID : 51834596");
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                    {
40                        System.out.print(k);
41                        k++;
42                    }
43                }
44            }
45            System.out.println();
46        }
47    }
48 }
```

X Terminal



Author : J Sri Sai Manoj
SAP ID : 51834596

1
212
12321
4321234
123454321

Process finished.

```
1 import java.util.Scanner;
2 public class DemoTranslation {
3 public static void main(String[] args) {
4 System.out.println("Author : J Sri Sai Manoj");
5 System.out.println("SAP ID : 51834596");
6 Scanner sc = new Scanner(System.in);
7 int n;
8 float sum;
9 int count;
10 System.out.print("\nEnter total number of terms:");
11 n = sc.nextInt();
12 sum = 0.0f;
13 count = 1;
14 for(int i = 1; i <= n; i++) {
15 sum = sum + (float)Math.pow(count, 2) / (float)n;
16 count += 2;
17 }
18 System.out.printf("\nSum of the series is : %f\n");
19 }
20 }
```

X Terminal



```
Author : J Sri Sai Manoj
SAP ID : 51834596
```

```
Enter total number of terms: 5
```

```
Sum of the series is : 1.787302
```

```
Process finished.
```