

```

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: ");
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 Manoj");
41             System.out.println("SAP ID : 51834596");
42             System.out.print("Enter first Height: ");
43             H1.getDistance();
44
45             System.out.print("Enter second Height: ");
46             H2.getDistance();
47
48             H3.addDistance(H1,H2);
49
50             System.out.print("Total Height is:");
51             H3.showDistance();
52         }
53         catch (Exception e)
54         {
55             System.out.println("Exception occurred :"+e.getMessage());
56         }
57     }
58 }

```

✕ 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: 10Inches: 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 visit");
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 change");
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 , NUME");
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 change");
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 , NUME");
88         System.out.println(typ+" "+spe+" "+nu);
89     }
90     public void getShelves()
91     {
92         scan.nextLine();
93         System.out.println("Which type of shelf you want");
94         String types = scan.nextLine();
95         System.out.println("Any specifications or change");
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 , NUME");
100        System.out.println(types+" "+specs+" "+numb);
101    }
102 }

```



```
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 }

```

✕ 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)M
16            count += 2;
17        }
18        System.out.printf("\nSum of the series is : %f\n", sum);
19    }
20 }
```

✕ Terminal



Author : J Sri Sai Manoj
SAP ID : 51834596

Enter total number of terms: 5

Sum of the series is : 1.787302

Process finished.

