

```

1  import java.util.*;
2  class Height
3  {
4      private int feet;
5      private int inches;
6
7      public void getDistance()
8      {
9          Scanner sc=new Scanner(System.in);
10
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 +
19          "\tInches: "+ inches);
20      }
21      public void addDistance(Height h1, Height
22      h2)
23      {
24          inches=h1.inches+h2.inches;
25          feet=h1.feet+h2.feet+(inches/12);
26          inches=inches%12;
27      }
28
29      public class Main
30      {
31          public static void main(String []s)
32          {
33              System.out.println("Name :V.
34              Jahnavi\nSAP ID :51834788");
35              Scanner sc=new Scanner(System.in);
36              try
37              {
38                  Height h1=new Height();
39                  Height h2=new Height();
40                  Height h3=new Height();
41
42                  //read first Height
43                  System.out.println("Enter First

```

```

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         System.out.println("Name :V.
    Jahnvi\nSAP ID :51834788");
34         Scanner sc=new Scanner(System.in);
35         try
36         {
37
38             Height h1=new Height();
39             Height h2=new Height();
40             Height h3=new Height();
41
42             //read first Height
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.print("Total Height is:" );
54             h3.showDistance();
55         }
56         catch (Exception e)
57         {
58             System.out.println("Exception
    occurred..." + e.toString());
59         }
60     }
61 }

```



Name :V. Jahnavi

SAP ID :51834788

Enter First Height

Enter feet: 4

Enter inches: 5

Enter Second Height

Enter feet: 5

Enter inches: 8

Total Height is:Feet: 10 Inches: 1

Process finished.





Name :V. Jahnavi

SAP ID :51834788

Enter First Height

Enter feet: 5.5

Exception occurred...java.util.InputMismatch

Process finished.


```

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      class chair extends Furniture {
10         private int numOf_legs;
11
12         public void accept() {
13
14             color = "Blue";
15             width = 22;
16             height = 40;
17             numOf_legs = 4;
18         }
19         public void display() {
20             System.out.println("DISPLAYING VALUE FOR
CHAIR");
21             System.out.println("Color is :" + color);
22             System.out.println("Width is :" + width);
23             System.out.println("Height is :" +
height);
24             System.out.println("Number of legs is :" +
numOf_legs);
25             System.out.println(" ");
26         }
27     }
28
29     class Bookshelf extends Furniture {
30
31         private int numOf_shelves;
32
33         public void accept() {
34
35             color = "Brown";
36             width = 70;
37             height = 80;
38             numOf_shelves = 4;
39         }
40         public void display () {
41             System.out.println("DISPLAYING VALUES FOR
BOOKSHELF");
42             System.out.println("Color is :" + color);

```

```

25     System.out.println(" ");
26 }
27 }
28
29 class Bookshelf extends Furniture {
30
31     private int numOf_shelves;
32
33     public void accept() {
34
35         color = "Brown";
36         width = 70;
37         height = 80;
38         numOf_shelves = 4;
39     }
40     public void display () {
41         System.out.println("DISPLAYING VALUES FOR
BOOKSHELF");
42         System.out.println("Color is :" + color);
43         System.out.println("Width is :" + width);
44         System.out.println("Height is :" +
height);
45         System.out.println("Number of shelves
is :" + numOf_shelves);
46         System.out.println(" ");
47
48         System.out.println("-----
-----");
49     }
50
51     class Main {
52         public static void main(String[] args) {
53             System.out.println("Name :V.
Jahnavi\nSAP ID :51834788");
54             Bookshelf bsh1 = new Bookshelf();
55             bsh1.accept();
56             bsh1.display();
57
58
59             chair ch1 = new chair ();
60             ch1.accept();
61             ch1.display();
62
63         }
64     }

```



```
Name :V. Jahnavi
SAP ID :51834788
DISPLAYING VALUES FOR BOOKSHELF
Color is :Brown
Width is :70
Height is :80
Number of shelves is :4
```

```
-----
DISPLAYING VALUE FOR CHAIR
Color is :Blue
Width is :22
Height is :40
Number of legs is :4
```

```
Process finished.
```




```

1 import java.util.Scanner;
2 class RemovingEvenOccurence
3 {
4     public static void main(String args[])
5     {
6         System.out.println("Name :V.
Jahnvi\nSAP ID:51834788");
7         Scanner sc=new Scanner(System.in);
8         System.out.println("Enter the size of
the array : ");
9         int n=sc.nextInt();
10        int arr[]=new int[n];
11        int i,j,k,count;
12        System.out.print("Enter "+n+" elements :
");
13        for(i=0;i<n;i++)
14        {
15            arr[i]=sc.nextInt();
16        }
17        System.out.print("Input : ");
18        System.out.print("{}");
19        for(i=0;i<n;i++)
20        {
21            System.out.print(arr[i]);
22            if(i!=n-1)
23            {
24                System.out.print(",");
25            }
26        }
27        System.out.print("}\n");
28        for(i=0;i<n;i++)
29        {
30            count=1;
31            for(j=i+1;j<n;j++)
32            {
33                if(arr[i]==arr[j])
34                {
35                    count++;
36                    if(count%2==0)
37                    {
38                        for(k=j;k<n-1;k++)
39                        {
40                            arr[k]=arr[k+1];
41                        }
42                        n--;
43                        j--;

```



```

15     arr[i]=sc.nextInt();
16 }
17 System.out.print("Input : ");
18 System.out.print("{");
19 for(i=0;i<n;i++)
20 {
21     System.out.print(arr[i]);
22     if(i!=n-1)
23     {
24         System.out.print(",");
25     }
26 }
27 System.out.print("}\n");
28 for(i=0;i<n;i++)
29 {
30     count=1;
31     for(j=i+1;j<n;j++)
32     {
33         if(arr[i]==arr[j])
34         {
35             count++;
36             if(count%2==0)
37             {
38                 for(k=j;k<n-1;k++)
39                 {
40                     arr[k]=arr[k+1];
41                 }
42                 n--;
43                 j--;
44             }
45         }
46     }
47 }
48 System.out.print("Output : ");
49 System.out.print("{");
50 for(i=0;i<n;i++)
51 {
52     System.out.print(arr[i]);
53     if(i!=n-1)
54     {
55         System.out.print(",");
56     }
57 }
58 System.out.print("}\n");
59 }
60 }

```



Name :V. Jahnavi

SAP ID:51834788

Enter the size of the array :

5

Enter 5 elements : 23

1

2

1

2

Input : {23,1,2,1,2}

Output : {23,1,2}

Process finished.



```

1 import java.util.Scanner;
2 class Pattern
3 {
4     public static void main(String[] args)
5     {
6         System.out.println("Name :V.
Jahnavi\nSAP ID:51834788");
7         Scanner sc=new Scanner(System.in);
8         System.out.println("Enter the number
of rows : ");
9         int n=sc.nextInt();
10        int i,j,k;
11        for(i=1;i<=n;i++)
12        {
13            for(j=n;j>i;j--)
14            {
15                System.out.print(" ");
16            }
17            if(i%2!=0)
18            {
19                for(j=1,k=1;j<=2*i-1;j++)
20                {
21                    if(j<i)
22                    {
23                        System.out.print(k);
24                        k++;
25                    }
26                    else
27                    {
28                        System.out.print(k);
29                        k--;
30                    }
31                }
32            }
33            else
34            {
35                for(j=1,k=i;j<=2*i-1;j++)
36                {
37                    if(j<i)
38                    {
39                        System.out.print(k);
40                        k--;
41                    }
42                    else
43                    {
44                        System.out.print(k);

```

```

8      System.out.println("Enter the number
of rows : ");
9      int n=sc.nextInt();
10     int i,j,k;
11     for(i=1;i<=n;i++)
12     {
13         for(j=n;j>i;j--)
14         {
15             System.out.print(" ");
16         }
17         if(i%2!=0)
18         {
19             for(j=1,k=1;j<=2*i-1;j++)
20             {
21                 if(j<i)
22                 {
23                     System.out.print(k);
24                     k++;
25                 }
26                 else
27                 {
28                     System.out.print(k);
29                     k--;
30                 }
31             }
32         }
33         else
34         {
35             for(j=1,k=i;j<=2*i-1;j++)
36             {
37                 if(j<i)
38                 {
39                     System.out.print(k);
40                     k--;
41                 }
42                 else
43                 {
44                     System.out.print(k);
45                     k++;
46                 }
47             }
48         }
49         System.out.println();
50     }
51 }
52 }

```




Name :V. Jahnavi

SAP ID:51834788

Enter the number of rows :

5

1

212

12321

4321234

123454321

Process finished.

```
1 import java.util.Scanner;
2 class Pattern
3 {
4     public static void main(String[] args)
5     {
6         System.out.println("Name :V.
Jahnavi\nSAP ID:51834788");
7         Scanner sc=new Scanner(System.in);
8         System.out.println("Enter the number of
series :");
9         int n=sc.nextInt();
10        float sum=1;
11        int j=1;
12        for(int i=2;i<=n;i++)
13        {
14            j=j+2;
15            sum=sum+(j^2/j^3);
16        }
17        System.out.println(sum);
18    }
19 }
```



```
Name :V. Jahnavi  
SAP ID:51834788  
Enter the number of series :  
5  
21.0  
  
Process finished.
```