



1stAnswer31_07_20.java



Saved

```
1 //1st answer
2
3 import java.util.*;
4
5 // Compiler version JDK 11.0.2
6
7 class Height
8 {
9     private int feet;
10    private int inches;
11
12    public void getDistance()
13    {
14        Scanner sc=new Scanner(System.in);
15
16        System.out.print("Enter feet: ");
17        feet=sc.nextInt();
18        System.out.print("Enter inches: ");
19        inches=sc.nextInt();
20    }
21    public void showDistance()
22    {
23        System.out.println("Feet: "+ feet + "\nInches: ");
24    }
25
26    public void addDistance(Height H1, Height H2)
27    {
28        inches=H1.inches+H2.inches;
29        feet=H1.feet+H2.feet+(inches/12);
30        inches=inches%12;
31    }
32 }
33
34 public class Main
35 {
36     public static void main(String []s)
37     {
38         try
39         {
40
41             Height H1=new Height();
42             Height H2=new Height();
43             Height H3=new Height();
44
45             //read first Height
46             System.out.println("Author:P.Hemanth\nSAP ID:");
47             System.out.println("Enter Height 1");
48             H1.getDistance();
49
50             //read second Height
```





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```
17     feet=sc.nextInt();
18     System.out.print("Enter inches: ");
19     inches=sc.nextInt();
20 }
21 public void showDistance()
22 {
23     System.out.println("Feet: "+ feet + "\nInches:
24 }
25
26 public void addDistance(Height H1, Height H2)
27 {
28     inches=H1.inches+H2.inches;
29     feet=H1.feet+H2.feet+(inches/12);
30     inches=inches%12;
31 }
32 }
33
34 public class Main
35 {
36     public static void main(String []s)
37     {
38         try
39         {
40
41             Height H1=new Height();
42             Height H2=new Height();
43             Height H3=new Height();
44
45             //read first Height
46             System.out.println("Author:P.Hemanth\nSAP ID:
47             System.out.println("Enter Height 1");
48             H1.getHeight();
49
50             //read second Height
51             System.out.println("Enter Height 2 ");
52             H2.getHeight();
53
54             //add heights
55             H3.addDistance(H1,H2);
56             //print Height
57             System.out.println("Total Height is:" );
58             H3.showDistance();
59         }
60         catch (Exception e)
61         {
62             System.out.println("Exception occurred :"+ e.
63         }
64     }
65 }
```





Author:P.Hemanth

SAP ID:51834553

Enter Height 1

Enter feet: 5

Enter inches: 9

Enter Height 2

Enter feet: 5

Enter inches: 2

Total Height is:

Feet: 10

Inches: 11

Process finished.



2ndAnswer31_07_20.java



Saved

```
1 //2nd answer
2 //author:P.Hemanth
3 //sap.id:51834553
4
5 import java.util.*;
6
7 // Compiler version JDK 11.0.2
8
9 abstract class Furniture {
10
11     protected String color;
12     protected int width;
13     protected int height;
14     public abstract void accept();
15     public abstract void display();
16 }
17     class chair extends Furniture {
18     private int numOf_legs;
19
20     public void accept() {
21
22         color = "Red";
23         width = 28;
24         height = 40;
25         numOf_legs = 4;
26     }
27     public void display() {
28         System.out.println("DISPLAYING VALUE FOR CHAIR");
29         System.out.println("=====");
30         System.out.println("Color is " + color);
31         System.out.println("Width is " + width);
32         System.out.println("Height is " + height);
33         System.out.println("Number of legs is " + numOf_l
34         System.out.println(" ");
35     }
36 }
37
38 class Bookshelf extends Furniture {
39
40     private int numOf_shelves;
41
42     public void accept() {
43
44         color = "Black";
45         width = 80;
46         height = 100;
47         numOf_shelves = 9;
48     }
49     public void display () {
50         System.out.println("DISPLAYING VALUES FOR BOOKSH
```





2ndAnswer31_07_20.java



Saved

```
35 }
36 }
37
38 class Bookshelf extends Furniture {
39
40     private int numOf_shelves;
41
42     public void accept() {
43
44         color = "Black";
45         width = 80;
46         height = 100;
47         numOf_shelves = 9;
48     }
49     public void display () {
50         System.out.println("DISPLAYING VALUES FOR BOOKSH-
51         System.out.println
52         ("=====");
53
54         System.out.println("Color is " + color);
55         System.out.println("Width is " + width);
56         System.out.println("Height is " + height);
57         System.out.println("Number of shelves is " + numC
58         System.out.println(" ");
59     }
60
61 }
62
63 class FurnitureDemo {
64     public static void main(String[] args) {
65         Scanner sc= new Scanner(System.in);
66         System.out.println("enter your name: ");
67         String name=sc.nextLine();
68         System.out.println("enter your address: ");
69         String address=sc.nextLine();
70         Bookshelf b1 = new Bookshelf();
71         b1.accept();
72         b1.display();
73
74
75         chair c1 = new chair ();
76         c1.accept();
77         c1.display();
78
79     }
80 }
81
82
83
```



Try Dcoder's keyboard





```
enter your name:
p. hemu
enter your address:
Vijayawada, near radio station, 8/9
DISPLAYING VALUES FOR BOOKSHELF
=====
Color is Black
Width is 80
Height is 100
Number of shelves is 9

DISPLAYING VALUE FOR CHAIR
=====
Color is Red
Width is 28
Height is 40
Number of legs is 4

Process finished.
```





3rdAnswer31_07_20.java



Saved

```
1
2 //3rd answer
3
4 import java.util.*;
5
6 // Compiler version JDK 11.0.2
7
8 class EvenOccurence
9 {
10     public static int[] remove(int[] x, int key) {
11
12         List<Integer> result = new ArrayList<>();
13
14         for (int y: x) {
15             if (y != key) {
16                 result.add(y);
17             }
18         }
19
20         return result.stream()
21             .mapToInt(Integer::intValue)
22             .toArray();
23     }
24
25     public static void main(String[] args) {
26         Scanner sc=new Scanner(System.in);
27         System.out.println("author:P.Hemanth\nsap.id:");
28         System.out.println("enter the size of the arr");
29         int size=sc.nextInt();
30         int x[]=new int[size];
31         System.out.println("enter "+size+" elements:");
32         for(int i=0;i<size;i++){
33             x[i]=sc.nextInt();
34         }
35         System.out.println("enter no. of occurrence:");
36         int key=sc.nextInt();
37
38
39         x = remove(x, key);
40         System.out.println(Arrays.toString(x));
41
42
43
44
45     }
46 }
47
```





```
author:P.Hemanth
sap.id:51834553
enter the size of the array:
3
enter 3 elements:
1
2
3
enter no. of occurrence:
4
[1, 2, 3]

Process finished.
```




4thAnswer31_07_20.java



Saved

```
1
2 //4th answer
3 import java.util.*;
4
5 // Compiler version JDK 11.0.2
6
7 public class Pyramid
8 {
9     public static void main(String[] args)
10    {
11        Scanner sc=new Scanner(System.in);
12        System.out.println("author:P.Hemanth\nsap.id:5
13        System.out.println("Enter no. of rows: ");
14        int number=sc.nextInt();
15        int i,j,k;
16        for(i=1;i<=number;i++)
17        {
18            for(j=number;j>i;j--)
19            {
20                System.out.print(" ");
21            }
22            if(i%2!=0)
23            {
24                for(j=1,k=1;j<=2*i-1;j++)
25                {
26                    if(j<i)
27                    {
28                        System.out.print(k);
29                        k++;
30                    }
31                    else
32                    {
33                        System.out.print(k);
34                        k--;
35                    }
36                }
37            }
38            else
39            {
40                for(j=1,k=i;j<=2*i-1;j++)
41                {
42                    if(j<i)
43                    {
44                        System.out.print(k);
45                        k--;
46                    }
47                    else
48                    {
49                        System.out.print(k);
50                        k++;
51                    }
52                }
53            }
54        }
55    }
56 }
```





Terminal



```
author:P.Hemanth  
sap.id:51834553  
Enter no. of rows:  
5  
  1  
 212  
12321  
4321234  
123454321
```

```
Process finished.
```



5thAnswer31_07_20.java



Saved

```
1
2 //5th answer
3
4 import java.util.*;
5
6 // Compiler version JDK 11.0.2
7
8
9 public class Numbers{
10
11     // Function to return the sum of the series
12     public static float getSum(int a, int n)
13     {
14
15         // variable to store the answer
16
17         float sum = 0;
18
19         for (int i = 1; i <= n; ++i) {
20
21
22
23
24
25             // Math.pow(x, y) returns x^y
26
27             sum += (i / Math.pow(a, i));
28
29         }
30
31         return sum;
32     }
33
34     public static void main(String[] args)
35     {
36
37         Scanner sc=new Scanner(System.in);
38         System.out.println("author:P.Hemanth\nsap.i");
39         System.out.println("\nenter the number: ");
40         int a=sc.nextInt();
41         System.out.println("enter the last number:");
42         int n=sc.nextInt();
43
44
45
46
47
48
49         // Print the sum of the series
50
51         System.out.println(getSum(a, n));
```



× Terminal



```
author:P.Hemanth  
sap.id:51834553
```

```
enter the number:
```

```
4
```

```
enter the last number:
```

```
5
```

```
0.4423828
```

```
Process finished.
```