



Question 1.java

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```
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         showDistance()
```

⋮ File info ⓘ d showDistance()





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```
17 }
18 public void showDistance()
19 {
20     System.out.println("Feet: "+ feet + "\tInches: "+ inches);
21 }
22
23 public void addDistance(Height H1, Height H2)
24 {
25     inches=H1.inches+H2.inches;
26     feet=H1.feet+H2.feet+(inches/12);
27     inches=inches%12;
28 }
29 }
30 }
31
32 public class Main
33 {
34     File info (i)
35     tic void main(String []s)
```





Question 1.java

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```
32 public class Main
33 {
34     public static void main(String []s)
35     {
36         try
37         {
38
39             Height H1=new Height();
40             Height H2=new Height();
41             Height H3=new Height();
42
43             //read first Height
44             System.out.println("Author:Ch.Pavan Manoj Kumar\nSAP ID:51834541");
45             System.out.println("Enter first Height: ");
46             H1.getDistance();
47
48             //read second Height
49             System.out.println("Enter second Height: ");
```

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Question 1.java

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```
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.println("Total Height is:" );
54 H3.showDistance();
55 }
56 catch (Exception e)
57 {
58     System.out.println("Exception occurred :"+ e.toString());
59 }
60 }
61 }
```

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x Terminal



Author:Ch.Pavan Manoj Kumar

SAP ID:51834541

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.





Question 2.java

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```
1 abstract class Furniture {
2     protected String color;
3     protected int width;
4     protected int height;
5     public abstract void accept();
6     public abstract void display();
7 }
8     class chair extends Furniture {
9     private int numOf_legs;
10    public void accept() {
11
12        color = "Brown";
13        width = 36;
14        height = 48;
15        numOf_legs = 4;
16
17    }
18    public void display() {
19        System.out.println("DISPLAYING VALUE FOR CHAIR");
20    }
21 }
```

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Question 2.java

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```
16 }
17
18 public void display() {
19     System.out.println("DISPLAYING VALUE FOR CHAIR");
20     System.out.println("=====");
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;
```

File info accept() {





Question 2.java

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```
31 private int numOf_shelves;
32
33 public void accept() {
34
35     color = "Black";
36     width = 72;
37     height = 84;
38     numOf_shelves = 4;
39 }
40 public void display () {
41     System.out.println("DISPLAYING VALUES FOR BOOKSHELF");
42     System.out.println
43     ("=====");
44
45     System.out.println("Color is" + color);
46     System.out.println("Width is" + width);
47     System.out.println("Height is" + height);
48     System.out.println("Number of shelves is" + numOf_shelves);
49     System.out.println(" ");
50 }
```

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Question 2.java

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```
45 System.out.println("Color is" + color);
46 System.out.println("Width is" + width);
47 System.out.println("Height is" + height);
48 System.out.println("Number of shelves is" + numOf_shelves);
49 System.out.println(" ");
50 }
51 }
52
53 class FurnitureDemo {
54     public static void main(String[] args) {
55         Bookshelf b1 = new Bookshelf();
56         b1.accept();
57         b1.display();
58
59
60         chair c1 = new chair ();
61         c1.accept();
62         c1.display();
63     }
64 }
```

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Question 2.java

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```
50 }  
51 }  
52  
53 class FurnitureDemo {  
54     public static void main(String[] args) {  
55         Bookshelf b1 = new Bookshelf();  
56         b1.accept();  
57         b1.display();  
58  
59  
60         chair c1 = new chair ();  
61         c1.accept();  
62         c1.display();  
63  
64     }  
65 }
```

File info





```
DISPLAYING VALUES FOR BOOKSHELF
```

```
=====
```

```
Color isBlack
```

```
Width is72
```

```
Height is84
```

```
Number of shelves is4
```

```
DISPLAYING VALUE FOR CHAIR
```

```
=====
```

```
Color isBrown
```

```
Width is36
```

```
Height is48
```

```
Number of legs is4
```

```
Process finished.
```



Question 3.java

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```
1 import java.util.*;
2
3 class Main
4 {
5     public static int[] remove(int[] x, int key) {
6
7         List<Integer> result = new ArrayList<>();
8
9         for (int y: x) {
10             if (y != key) {
11                 result.add(y);
12             }
13         }
14
15         return result.stream()
16             .mapToInt(Integer::intValue)
17             .toArray();
18     }
19 }
```



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Question 3.java



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```
14
15     return result.stream()
16         .mapToInt(Integer::intValue)
17         .toArray();
18 }
19
20 public static void main(String[] args) {
21     int[] x = { 1, 4, 1, 3, 1, 2, 1, 0 };
22     int key = 1;
23
24     x = remove(x, key);
25     System.out.println("Author:Ch.Pavan Manoj Kumar\nSAP ID:51834541");
26     System.out.println(Arrays.toString(x));
27 }
28 }
```

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```
Author:Ch.Pavan Manoj Kumar  
SAP ID:51834541  
[4, 3, 2, 0]
```

```
Process finished.
```



Question 4.java

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```
1 public class Main
2 {
3     public static void main(String[] args)
4     {
5         int i,j,k;
6         System.out.println("Author: Ch.Pavan Manoj Kumar\n Sap id : 51834541");
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                {
```

Make public





Question 4.java

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```
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(i=1;k=i;i<=2*i-1;i++)
```

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Question 4.java

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```
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 }
```

File info



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Author: Ch.Pavan Manoj Kumar

Sap id : 51834541

1

212

12321

4321234

123454321

Process finished.



Question 5.java

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```
1 import java.util.Scanner;
2
3 public class DemoTranslation {
4     public static void main(String[] args) {
5         int n;
6         float sum;
7         int count;
8         System.out.println("Author: Ch.Pavan Manoj Kumar\n Sap id : 51834541");
9         System.out.print("\nEnter total number of terms :: ");
10        n = STDIN_SCANNER.nextInt();
11
12
13        sum = 0.0f;
14
15
16        count = 1;
17        while (count <= n) {
18            sum += (float) Math.pow(count, 2) / (float) Math.pow(count, 3);
19            count++;
20        }
21        System.out.println("Sum of series is: " + sum);
22    }
23 }
```

Try Dcoder's keyboard

```
++) {
    pow(count, 2) / (float) Math.pow(count, 3);
}
```





Question 5.java

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```
12
13 sum = 0.0f;
14
15
16 count = 1;
17 for(int i = 1; i <= n; i++) {
18 sum = sum + (float)Math.pow(count, 2) / (float)Math.pow(count, 3);
19 count += 2;
20 }
21
22 System.out.printf("\nSum of the series is :: %f\n", sum);
23 }
24
25 public final static Scanner STDIN_SCANNER = new Scanner(System.in);
26 }
```

Try Dcoder's keyboard



× Terminal



Author: Ch.Pavan Manoj Kumar  
Sap id : 51834541

Enter total number of terms :: 7

Sum of the series is :: 1.955134

Process finished.  
|