



hcl.java

Saved



```
1 //question 1 //
2 import java.util.Scanner;
3
4 class Height
5 {
6     private int feet;
7     private int inches;
8
9     public void getDistance()
10    {
11        Scanner sc=new Scanner(System.in);
12
13        System.out.print("Enter feet: ");
14        feet=sc.nextInt();
15        System.out.print("Enter inches: ");
16        inches=sc.nextInt();
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 public class Main
32 {
33     public static void main(String []s)
34     {
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("Author:ch.madhu sai\nSAP ID:51834527");
44             System.out.println("Enter first Height: ");
45             H1.getDistance();
46
47             //read second Height
48             System.out.println("Enter second Height: ");
49             H2.getDistance();
50
51             //add heights
52             H3.addDistance(H1,H2);
53             //print Height
54             System.out.println("Total Height is:");
55             H3.showDistance();
56         }
57         catch (Exception e)
58         {
59             System.out.println("Exception occurred :"+ e.toString());
60         }
61     }
62 }
```



Terminal



```
Author:ch.madhu sai
SAP ID:51834527
Enter first Height:
Enter feet: 3
Enter inches: 6
Enter second Height:
Enter feet: 7
Enter inches: 8
Total Height is:
Feet: 11Inches: 2
```

```
Process finished.
```



hcl.java

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```
1 // question 2//
2 abstract class Furniture {
3
4     protected String color;
5     protected int width;
6     protected int height;
7     public abstract void accept();
8     public abstract void display();
9 }
10     class chair extends Furniture {
11     private int numOf_legs;
12
13     public void accept() {
14
15         color = "Brown";
16         width = 36;
17         height = 48;
18         numOf_legs = 4;
19     }
20     public void display() {
21     System.out.println("DISPLAYING VALUE FOR CHAIR");
22     System.out.println("=====");
23     System.out.println("Color is" + color);
24     System.out.println("Width is" + width);
25     System.out.println("Height is" + height);
26     System.out.println("Number of legs is" + numOf_legs);
27     System.out.println(" ");
28     }
29 }
30
31 class Bookshelf extends Furniture {
32
33     private int numOf_shelves;
34
35     public void accept() {
36
37         color = "Black";
38         width = 72;
39         height = 84;
40         numOf_shelves = 4;
41     }
42     public void display () {
43     System.out.println("DISPLAYING VALUES FOR BOOKSHELF");
44     System.out.println
45     ("=====");
46
47     System.out.println("Color is" + color);
48     System.out.println("Width is" + width);
49     System.out.println("Height is" + height);
50     System.out.println("Number of shelves is" + numOf_shelves);
51     System.out.println(" ");
52     }
53 }
54
55 class FurnitureDemo {
56     public static void main(String[] args) {
57         Bookshelf b1 = new Bookshelf();
58         b1.accept();
59         b1.display();
60
61         chair c1 = new chair ();
62         c1.accept();
63         c1.display();
64
65     }
66 }
67 }
```

Make public





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.



hcl.java

Saved



```
1 //question 3//
2 import java.util.*;
3
4 class Main
5 {
6     public static int[] remove(int[] x, int key) {
7
8         List<Integer> result = new ArrayList<>();
9
10        for (int y: x) {
11            if (y != key) {
12                result.add(y);
13            }
14        }
15
16        return result.stream()
17            .mapToInt(Integer::intValue)
18            .toArray();
19    }
20
21    public static void main(String[] args) {
22        int[] x = { 1, 4, 1, 3, 1, 2, 1, 0 };
23        int key = 1;
24
25        x = remove(x, key);
26        System.out.println("Author:ch.madhu sai\nSAP ID:51834527");
27        System.out.println(Arrays.toString(x));
28    }
29 }
```



Terminal



```
Author:ch.madhu sai  
SAP ID:51834527  
[4, 3, 2, 0]
```

```
Process finished.
```



```
1 //question 4//
2 public class Main
3 {
4     public static void main(String[] args)
5     {
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



```
1
212
12321
4321234
123454321
```

```
Process finished.
```


This quiz will close at Friday, 31 July 2020, 5:00 PM

Time limit: 30 mins

SUMMARY OF YOUR PREVIOUS ATTEMPTS

State	Marks / 20.00	Grade / 10.00	Review
Finished	15.00	7.50	
Submitted Friday, 31 July 2020, 3:31 PM			

YOUR FINAL GRADE FOR THIS QUIZ IS 7.50/10.00.

No more attempts are allowed

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