

J cheran kumar

Java 1

Sap id : 51834769

Answers.....

1)

import java.util.;*

class Height

{

private int feet;

private int inches;

public void getDistance()

{

Scanner sc=new Scanner(System.in);

System.out.print("Enter feet. ");

feet=sc.nextInt();

System.out.print("Enter inches: ");

inches=sc.nextInt();

}

```
public void showDistance()
{
    System.out.println("Feet: "+ feet + "\tInches: "+ inches);
}

public void addDistance(Height H1, Height H2)
{
    inches=H1.inches+H2.inches;
    feet=H1.feet+H2.feet+(inches/12);
    inches=inches%12;
}
}

public class Main
{
    public static void main(String []s)
    {
        try
        {

            Height H1=new Height();
            Height H2=new Height();
            Height H3=new Height();

            //read first Height
```

```

        System.out.println("Author:J. Cheran kumar\nSAP ID:51834769");

        System.out.println("Enter first Height: ");

        H1.getDistance();

        //read second Height

        System.out.println("Enter second Height: ");

        H2.getDistance();

        //add heights

        H3.addDistance(H1,H2);

        //print Height

        System.out.println("Total Height is: " );

        H3.showDistance();

    }

    catch (Exception e)

    {

        System.out.println("Exception occurred :"+ e.toString());

    }

}

}

```

```

17:05  [Microphone] [my] [Mail] [•]  6.00 KB/S  4G  [Battery 71]
Terminal
Author:J.Cheran kumar
SAP ID:51834769
Enter first Height:
Enter feet: 6
Enter inches: 72
Enter second Height:
Enter feet: 5
Enter inches: 60
Total Height is:
Feet: 22Inches: 0

Process finished.

```

2)

```
abstract class Furniture {
```

```
    protected String color;
```

```
    protected int width;
```

```
    protected int height;
```

```
    public abstract void accept();
```

```
    public abstract void display();
```

```
}
```

```
    class chair extends Furniture {
```

```
        private int numOf_legs;
```

```
        public void accept() {
```

```
            color = "Brown";
```

```
            width = 36;
```

```
            height = 48;
```

```
            numOf_legs = 4;
```

```
        }
```

```
        public void display() {
```

```
            System.out.println("DISPLAYING VALUE FOR CHAIR");
```

```

System.out.println("=====");
System.out.println("Color is" + color);
System.out.println("Width is" + width);
System.out.println("Height is" + height);
System.out.println("Number of legs is" + numOf_legs);
System.out.println(" ");
}
}

```

```

class Bookshelf extends Furniture {

```

```

    private int numOf_shelves;

```

```

    public void accept() {

```

```

        color ="Black";

```

```

        width = 72;

```

```

        height = 84;

```

```

        numOf_shelves = 4;

```

```

    }

```

```

    public void display () {

```

```

        System.out.println("DISPLAYING VALUES FOR BOOKSHELF");

```

```

        System.out.println

```

```

        ("=====");
    }
}

```

```

        System.out.println("Color is" + color);

        System.out.println("Width is" + width);

        System.out.println("Height is" + height);

        System.out.println("Number of shelves is" + numOf_shelves);

        System.out.println(" ");
    }
}

```

```

class FurnitureDemo {

    public static void main(String[] args) {

        Bookshelf b1 = new Bookshelf();

        b1.accept();

        b1.display();
    }
}

```

```

        chair c1 = new chair ();

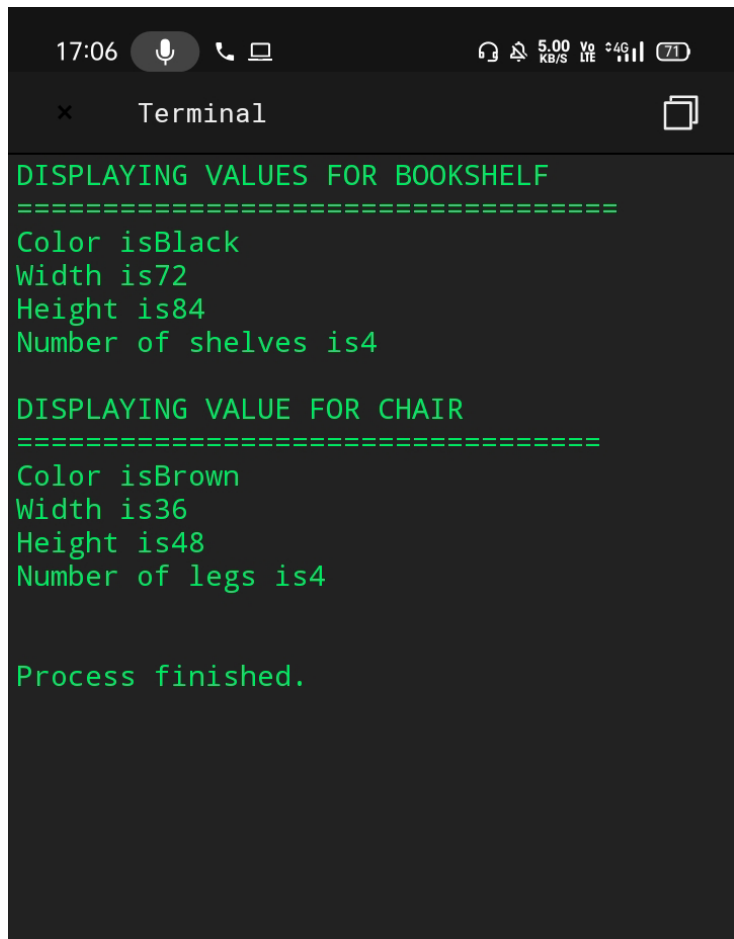
        c1.accept();

        c1.display();

    }

}

```



```

17:06 [Microphone Icon] [Phone Icon] [Laptop Icon] [Headphones Icon] [5.00 KB/S] [VoLTE] [4G] [71]
Terminal
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.

```

3)

```
import java.util.*;
```

```
class Main
```

```
{
```

```
    public static int[] remove(int[] x, int key) {
```

```
        List<Integer> result = new ArrayList<>();
```

```
        for (int y: x) {
```

```
            if (y != key) {
```

```
                result.add(y);
```

```
            }
```

```
        }
```

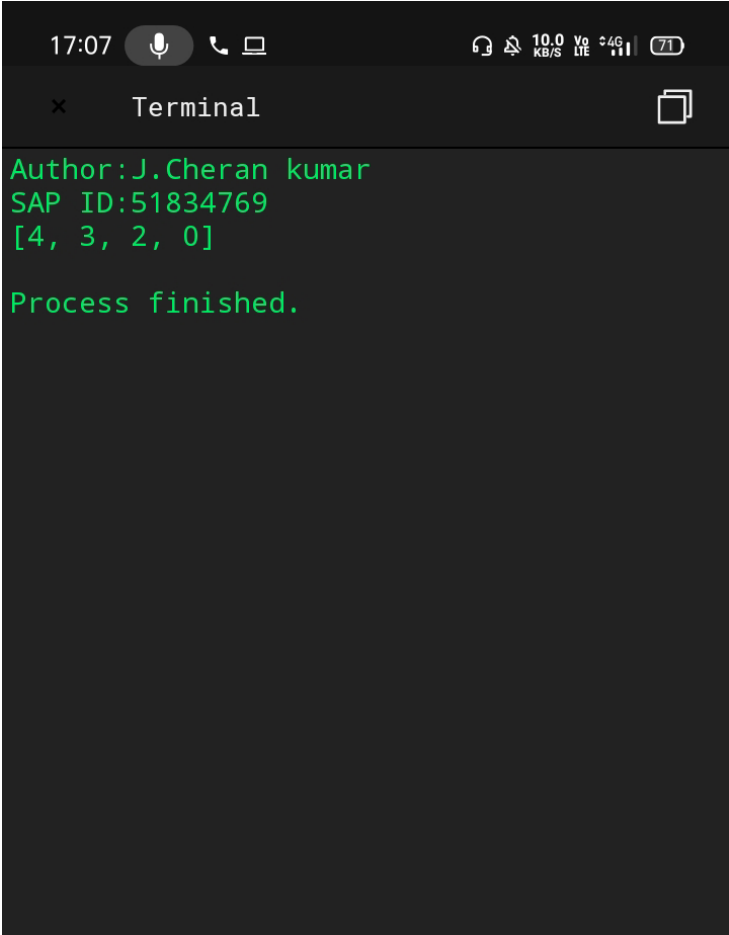
```
        return result.stream()
```

```
            .mapToInt(Integer::intValue)
```

```
            .toArray();
```

```
    }
```

```
public static void main(String[] args) {  
    int[] x = { 1, 4, 1, 3, 1, 2, 1, 0 };  
    int key = 1;  
  
    x = remove(x, key);  
  
    System.out.println("Author:J. Cheran kumar\nSAP ID:51834769");  
  
    System.out.println(Arrays.toString(x));  
}  
}
```



The screenshot shows a mobile terminal window with a dark background. At the top, there is a status bar with the time 17:07, a microphone icon, and various network and battery indicators. Below the status bar, the terminal window has a title bar with a close button (x), the text "Terminal", and a window icon. The terminal displays the output of a Java program in green text: "Author:J.Cheran kumar", "SAP ID:51834769", "[4, 3, 2, 0]", and "Process finished.".

```
17:07 [microphone icon] [network icons] [battery icon]  
x Terminal [window icon]  
Author:J.Cheran kumar  
SAP ID:51834769  
[4, 3, 2, 0]  
Process finished.
```


4)

```
import java.util.*;
```

```
public class PalindromePattern
```

```
{
```

```
    public static void main(String[] args)
```

```
    {
```

```
        int i,j,k;
```

```
        Scanner sc=new Scanner(System.in);
```

```
        System.out.println("enter no.of rows");
```

```
        int n=sc.nextInt();
```

```
for(i=0; i<n; i++)
```

```
{
```

```
    //inotializing k as one
```

```
    k=1;
```

```
    for(j=0; j<(n+i); j++)
```

```
    {
```

```
        if(j<n-i-1)
```

```
            //prints space in the less than n-i-2 places
```

```
                System.out.print(" ");
```

```
    else
```

```
    {
```

// else prints k

System.out.print(+ k);

if(j<(n-1))

// if j is greater than n-1

//increases to k+1

k++;

else

//if not k as k-1

k--;

}

}

System.out.println(" ");

```
}  
  
}  
  
}
```

```
Terminal  
enter no.of rows  
3  
    1  
   121  
  12321  
  
Process finished.  
|
```

5)

```
import java.util.Scanner;
```

```
public class DemoTranslation {
```

```
public static void main(String[] args) {
```

```
int n;
```

```
float sum;
```

```
int count;
```

```
System.out.print("\nEnter total number of terms :: ");
```

```
n = STDIN_SCANNER.nextInt();
```

```
sum = 0.0f;
```

```
count = 1;
```

```
for(int i = 1; i <= n; i++) {
```

```
sum = sum + (float)Math.pow(count, 2) / (float)Math.pow(count, 3);
```

```
count += 2;
```

```
}
```

}

}

: 18.50

