CS433P Programming Paradigm Lab

DATE: 20-01-2023

EXPERIMENT NO 2

REGISTER NO: 2162014

IMPLEMENTATION OF CLASSES AND OBJECTS

AIM: Write a java program to create a class Distance with data members' feet and inches.

PROGRAM:

```
/**
* @author 2162014
import java.util.Scanner;
class Distance {
  int feet, inch;
  Distance() {
     feet = 0;
     inch = 0;
  Distance(int ft, int in) {
     feet = ft;
     inch = in;
  }
  void readDistance() {
     Scanner in = new Scanner(System.in);
     System.out.println("Enter the distance: ");
     System.out.println("Enter feet: ");
     feet = in.nextInt();
     System.out.println("Enter inch: ");
     inch = in.nextInt();
  }
  void printDistance() {
     System.out.println(feet + "\"" + inch + "\"");
  }
  void addDistance(Distance d) {
     feet = this.feet + d.feet;
     inch = this.inch + d.inch;
     if (inch > 11) {
       ++feet;
       inch -= 12;
```

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```
}
}
public class Distanceaddition {
  public static void main(String[] args) {
     Distance d1 = new Distance();
     Distance d2 = new Distance(3, 5);
     d1.readDistance();
     System.out.println("Distance D1:");
     d1.printDistance();
     System.out.println("Distance D2");
     d2.printDistance();
     System.out.println("Sum of two distances: ");
     d1.addDistance(d2);
    d1.printDistance();
  }
}
```

OUTPUTS:

DATE: 20-01-2023

```
/indows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\ashva\
PS C:\Users\ashva\
Enter the distance:
Enter feet:
                                                                                                javac Distanceaddition.javajava Distanceaddition
nter inch:
Distance D1:
Distance D2
3'5"
Sum of two distances:
9'10"
                                                                                               > java Distanceaddition
  stance D2
                                                                                               > java Distanceaddition
Enter inch:
 istance D1:
  istance D2
                                                                                               > java Distanceaddition
nter inch:
Distance D1:
Distance D2
  n of two distances:
```

RESULTS:

The java program was created successfully to demonstrate classes and objects.