**Date**: 27-01-2023 **Name:** Ashvath S.P **Reg No**: 2162014

## <u>Lab Experiment – 2</u>

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

```
Code:
```

```
/**
*
* @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();
}
```

## **Output**:

```
Windows 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:
5
Distance D1:
6'5"
Distance D2
3'5"
3'5"
Sum of two distances:
9'10"
PS C:\Users\ashva\
Enter the distance:
Enter feet:
                                                                                                                > java Distanceaddition
  nter inch:
11
Distance D1:
5'11"
Distance D2
3'5"
Sum of two distances:
9'4"
                                                                                                                 > java Distanceaddition
Z
Enter inch:
Distance D1:
Distance D2
 Sum of two distances:
5'11"
 PS C:\Users\ashva\
Enter the distance:
Enter feet:
  nter inch:
 istance D1:
    stance D2
      of two distances:
```