//SYCM-I Roll No:15

//Date of Performance : 29/09/2022

//Practical No.: 8.2

//Title : Program to add two Distances in km & m using friend function

**Code:**

#include<iostream>

using namespace std;

class Distance

{

private:

int km,m;

public:

void get\_distance(void)

{

cin>>km>>m;

}

void put\_distance(void)

{

cout<<km<<"km "<<m<<"m"<<endl;

}

friend Distance sum(Distance &D1,Distance &D2);

};

Distance sum(Distance &D1,Distance &D2)

{

Distance D3;

int total,kilo\_meter;

total=D1.m+D2.m;

kilo\_meter=total/1000;

D3.m=total%1000;

D3.km=D1.km+D2.km+kilo\_meter;

return D3;

}

int main()

{

Distance D1,D2,D3;

cout<<"Enter Distance-1 in km-m: ";

D1.get\_distance();

cout<<"Enter Distance-2 in km-m: ";

D2.get\_distance();

D3=sum(D1,D2);

cout<<"Total Distance= ";

D3.put\_distance();

return 0;

}

**Output:**

Enter Distance-1 in km-m: 14 900

Enter Distance-2 in km-m: 5 700

Total Distance= 20km 600m

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