1ˢᵗ QUESTION ANS

```cpp
#include <iostream>
#include <string>
using namespace std;

class Player {
private:
    string name;
    int level;
    int experience;

public:
    Player() : name("Unknown"), level(1), experience(0) {}
    Player(string n, int l, int exp) : name(n), level(l), experience(exp) {}

    Player(const Player &p) {
        name = p.name;
        level = p.level;
        experience = p.experience;
    }

    void displayProfile() {
        cout << "\nPlayer Profile: " << endl;
        cout << "Name: " << name << endl;
        cout << "Level: " << level << endl;
        cout << "Experience Points: " << experience << endl;
    }
};
```

```cpp
// main program strts from here
int main() {
    string name;
    int level, experience;

    // Taking input from the user
    cout << "Enter player name:";
    getline(cin, name);
    cout << "Enter player level: ";
    cin >> level;
    cout << "Enter player experience points: ";
    cin >> experience;

    // Creatign profile with the input of the user
    Player player1(name, level, experience);
    cout << "\nOriginal Profile:" << endl;
    player1.displayProfile();

    // copy of the plyaer
    Player player2 = player1;
    cout << "\nCopied Profile:" << endl;
    player2.displayProfile();

    return 0;
}
```

```
Enter player name:allan
Enter player level: 10
Enter player experience points: 1000


Original Profile:

Player Profile:
Name: allan
Level: 10
Experience Points: 1000

Copied Profile:

Player Profile:
Name: allan
Level: 10
Experience Points: 1000
```

2ND QUESTION

```cpp
#include <iostream>

using namespace std;


class Distance {

private:

    int feet;

    int inches;


public:

    Distance() : feet(0), inches(0) {}


    Distance(int f, int i) : feet(f), inches(i) {}


    friend void compareDistances(Distance d1, Distance d2);


    void displayDistance() {

        cout << feet << " feet " << inches << " inches" << endl;

    }

};

void compareDistances(Distance d1, Distance d2) {

    int totalInches1 = d1.feet * 12 + d1.inches;

    int totalInches2 = d2.feet * 12 + d2.inches;


    cout << "\nCOMPARING Distances:" << endl;

    d1.displayDistance();

    d2.displayDistance();


    if (totalInches1 > totalInches2) {
```

```cpp
            cout << "First distance is greater." << endl;
        } else if (totalInches1 < totalInches2) {
            cout << "Second distance is greater." << endl;
        } else {
            cout << "Both distances are equal." << endl;
        }
}


int main() {
    int feet1, inches1, feet2, inches2;

    // IINPUT OF FIRST DISTANCE
    cout << "Enter feet for Distance 1: ";
    cin >> feet1;
    cout << "Enter inches for Distance 1: ";
    cin >> inches1;

    // INPUT OF SECOND DISTANCE
    cout << "\nEnter feet for Distance 2: ";
    cin >> feet2;
    cout << "Enter inches for Distance 2: ";
    cin >> inches2;

    // Creating distance objects with the input
    Distance d1(feet1, inches1);
    Distance d2(feet2, inches2);

    // Comparing distances from both inputs from the user
    compareDistances(d1, d2);
    return 0;
}
```

OUTPUT FOR 2nd QUESTION

```
Enter feet for Distance 1: 10
Enter inches for Distance 1: 50

Enter feet for Distance 2: 13
Enter inches for Distance 2: 2

COMPARING Distances:
10 feet 50 inches
13 feet 2 inches
First distance is greater.
```