Krystal Maughan CSIS 137
Exercise 3
Feet and Inches

Client FeetandInchesTester (Main)

```
#include <"FeetAndInches.h">


ask client to enter feet and inches
display feet and inches correctly
```

FeetAndInches

```
friend ostream &operator<<( ostream &, const FeetAndInches &);
friend istream &operator>>( istream &, FeetAndInches & );

public:

+ ~FeetAndInches(); // destructor
+   FeetAndInches(int, int); // if both feet and inches are zero
+   void FeetAndInchesToDecimal(int totalfeet); // sets feet and inches to decimal (total
inches)

      // accessors ->
+   int getTotalInches(void) const; // get total inches
+   void setTotalInches(int totalInches);
+   int getTotalFeet(void) const; //get total Feet
+   void setTotalFeet(int totalfeet); //set total feet
+   int getFeet(void) const; // get feet
+   void setFeet(int feet); // set feet
+   int getInches(void) const; // get inches
+   void setInches(int inches); // set inches

// overloaded operator functions
+   FeetAndInches()
     {
     FeetAndInches operator+(FeetAndInches &totalinches);// operator
          {
          FeetAndInches temp;
          if ((!temp.inches == 0) && (!temp.feet == 0))
          {
               temp.inches = inches + temp.inches;
               if (temp.inches % 12 == 0)
               {
                    temp.feet = feet + (temp.inches / 12);
               }
          }

     }
}// operator overload

+   FeetAndInches operator + (FeetAndInches &test); // addition
+   FeetAndInches operator - (FeetAndInches &test); //subtraction
+   FeetAndInches operator!=(FeetAndInches &test); // not equal
+   FeetAndInches operator==(FeetAndInches &test); // equal
+   FeetAndInches operator <<(FeetAndInches &test); // << overloaded
+   FeetAndInches operator >>(FeetAndInches &test); // >> overloaded
+   FeetAndInches operator >(FeetAndInches &test); // > overloaded
+   FeetAndInches operator <(FeetAndInches &test); // < overloaded
+   FeetAndInches operator >=(FeetAndInches &test); // >= overloaded
+   FeetAndInches operator <=(FeetAndInches &test); // <= overloaded
```

```
private:

- int feet
- int inches
- int toalinches
- int totalfeet
```