Project Requirements

- All numerical user inputs must be a positive number.
- Maximum volume and weight of the plane cannot be exceeded.
- Cargo labels must be unique.
- Multi-Worded Cities and cargo labels are allowed.
- Five command lines: FLY, LOAD, UNLOAD, PRINT and QUIT.
- Re-prompt for input if an invalid input is inputted.
- Weight data must be outputted with 2 decimal points.
- Cargo data input must be in the following order: Label, Weight, Height, Width, and Length.
- Program should end after plane crash / runs out of fuel.

- The below classes and functions must be implemented, return values and parameters must not be changed.

Class: Cargo

Functions:

Cargo ( )

Cargo (string label, int height, int width, int length, double weight)

```
Int getVolume( )

double getWeight( )

string getLabel( )

void print( )
```

Class: CargoPlane

Functions:

```
cargoPlane( )

cargoPlane ( double maxWeight, int maxVolume, int fuelCapacity, int
fuelRate, const string& city)

int loadCargo( Cargo cargo )

void unLoadCargo (string label)

bool fly( string city, int hours, int miles )

void print( )
```