FILE NAME: Invoice.h

CODE:

#include <iostream>

#include <string>

#ifndef INVOICE\_H

#define INVOICE\_H

using namespace std;

class Invoice {

public:

    Invoice();

    Invoice(string partNumber, string partDesc, int quantity, int price);

    //functions

    int getPrice() const;

    int getQuantity() const;

    int getInvoiceAmount() const;

    string getPartNumber() const;

    string getPartDesc() const;

    void setPartNumber(string partNumber);

    void setPartDesc(string partDesc);

    void setPrice(int price);

    void setQuantity(int quantity);

    void PrintNewInvoice() const;

private:

    string partNumber;

    string partDesc;

    int quantity;

    int price;

};

#endif

FILE NAME: “Invoice.cpp”

CODE:

#include "Invoice.h"

Invoice::Invoice() {

    partNumber = "0000";

    partDesc = "DEFAULT";

    quantity = 0;

    price = 0;

}

Invoice::Invoice(string partNumber, string partDesc, int quantity, int price) {

   quantity = (quantity > 0) ? quantity : 0;

   price = (price > 0) ? price : 0;

    this->partNumber = partNumber;

    this->partDesc = partDesc;

    this->quantity = quantity;

    this->price = price;

}

void Invoice::setPartDesc(string partDesc) {

   this->partDesc = partDesc;

}

void Invoice::setPartNumber(string partNumber) {

   this->partNumber = partNumber;

}

void Invoice::setPrice(int price) {

   this->price = price;

}

void Invoice::setQuantity(int quantity) {

   this->quantity = quantity;

}

int Invoice::getPrice() const {

    return price;

}

int Invoice::getQuantity() const {

   return quantity;

}

int Invoice::getInvoiceAmount() const {

   return (quantity \* price);

}

string Invoice::getPartNumber() const {

   return partNumber;

}

string Invoice::getPartDesc() const {

   return partDesc;

}

void Invoice::PrintNewInvoice() const {

   cout << '\n';

   cout << "OUTPUT" << endl;

   cout << "The part number is " << Invoice::getPartNumber() << endl;

   cout << "The part description is " << Invoice::getPartDesc() << endl;

   cout << "The quantity of requested part " << Invoice::getQuantity() << endl;

   cout << "The price of requested part " << Invoice::getPrice() << endl;

   cout << "The invoice cost is " << Invoice::getInvoiceAmount() << endl;

}

FILE NAME : “main.cpp”

CODE:

#include "Invoice.h"

#include "Invoice.cpp"

int main()

{

   int InputPrice;

   int InputQuantity;

   string InputPartNumber;

   string InputPartDesc;

   cout << "INPUT" << endl;

   cout << "Enter a new part number: ";

   getline(cin, InputPartNumber);

   cout << "Enter a new part description: ";

   getline(cin, InputPartDesc);

   cout << "Enter the new desired quantity: ";

   cin >> InputQuantity;

   cout << "Enter the new price: ";

   cin >> InputPrice;

   Invoice invoice1(InputPartNumber, InputPartDesc, InputQuantity, InputPrice);

   invoice1.PrintNewInvoice();

    return 0;

}

OUTPUT IMAGES:

Run 1:

A screen shot of a computer

Description automatically generated

Run 2:

A screen shot of a computer

Description automatically generated

Run 3:

A computer screen shot of white text

Description automatically generated