Lab 7: Jeremy Howell, Nhi Pham

Publication.h

```
#ifndef PUBLICATION_PUBLICATION_H
#define PUBLICATION_PUBLICATION_H
#include <iostream>
#include <string>
using namespace std;

class Publication {

public:
	//Declare two functions getData and putData
	Publication();
	Publication(string ti, float pri);
	void getData();
	void putData() const;
private:
	//Declare title and price
	std::string title;
	float price;
};
#endif //PUBLICATION_PUBLICATION_H
```

Publication.cpp

```
#include "Publication.h"
#include <iostream>

using namespace std;
Publication::Publication()
{
	title = "N/A";
	price = 0;
};
Publication::Publication(string ti, float pri) {
	title = ti;
	price = pri;
}
//Define the function getData to get title and price
void Publication::getData() {
	cout << "Enter the title: " << endl;
	getline(cin >> ws, title);
	cout << "Enter the price: " << endl;
	cin >> price;
};
//Define the function putData to get title and price
void Publication::putData() const {
	cout << "The title is: " << title << endl;
	cout << "The price is: $" << price << endl;
}
```

Sales.h

```
#ifndef PUBLICATION_SALE_H
#define PUBLICATION_SALE_H
#include <iostream>
using namespace std;

class Sale {
public:
    Sale();
    //Declare functions getData and putData
    void getData();
    void putData();
private:
    //Declare an array to store sales for three months
    float saleArray[3];
};
#endif //PUBLICATION_SALE_H
```

Sales.cpp

```
#include "Sales.h"
#include <iostream>
using namespace std;

Sale::Sale() {
	for (int i = 0; i < 3; i++) {
		saleArray[i] = 0;
	}
}

void Sale::getData() {
	for (int i = 0; i < 3; i++) {
		cout << "Enter sale amount: " << endl;
		cin >> saleArray[i];
	}
}

void Sale::putData() {
	cout << "Three months of sales are: " << endl;
	for (int i = 0; i < 3; i++) {
		cout << '$' << saleArray[i] << endl;
	}
}
```

Book.h

```
//Class Book is created from classes Publication and Sales

#ifndef PUBLICATION_BOOK_H
```

```
#define PUBLICATION_BOOK_H
#include "Publication.h"
#include "Sales.h"
class Book: public Publication, public Sale {
private:
	int pageCount;
public:
	Book();
	void getData();
	void putData();
};
#endif //PUBLICATION_BOOK_H
```

Book.cpp

```
#include "Publication.h"
#include "Sales.h"
#include "Book.h"

Book::Book() {
	Publication();
	Sale();
	pageCount = 0;
}

void Book::getData() {
	Publication::getData();
	Sale::getData();
	cout << "Enter page count of the book: " << endl;
	cin >> pageCount;
}

void Book::putData() {
	Publication::putData();
	Sale::putData();
	cout << "Page count of the book is: " << pageCount << endl;
	cout << endl;
}
```

Digital.h

```
#ifndef PUBLICATION_DIGITAL_H
#define PUBLICATION_DIGITAL_H
#include "Publication.h"
#include "Sales.h"

class Digital : public Publication, public Sale {
private:
	int storageCap;
public:
	Digital();
	void getData();
	void putData();
```

```
};
#endif //PUBLICATION_DIGITAL_H
```

Digital.cpp

```
#include "Digital.h"
#include "Publication.h"
#include "Sales.h"
#include <iostream>

Digital::Digital() {
	Publication();
	Sale();
	storageCap = 0;
}

void Digital::getData() {
	Publication::getData();
	Sale::getData();
	cout << "Enter storage capacity in MG bytes: " << endl;
	cin >> storageCap;
}

void Digital::putData() {
	Publication::putData();
	Sale::putData();
	cout << "Storage capacity in MG bytes is: " << storageCap << endl;
	cout << endl;
}
```

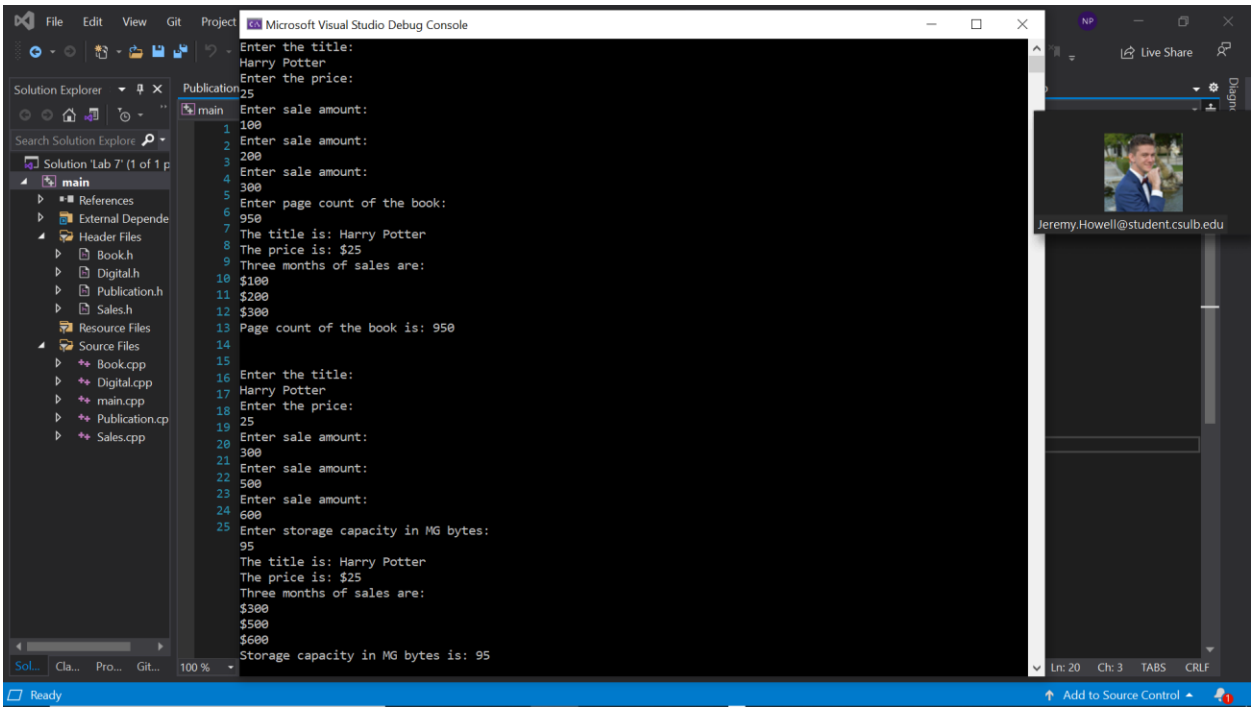
Main.cpp

```
#include "Sales.h"
#include "Publication.h"
#include "Book.h"
#include "Digital.h"
#include <iostream>
#include <string>

using namespace std;

int main() {
    Book book;
    Digital digital;
    book.getData();
    book.putData();
    cout << endl;

    digital.getData();
    digital.putData();
    cout << endl;
    return 0;
}
```



Demonstrated at 11:26 am on 9/30/2021