

OOP (Object Oriented Programming) Lab

LAB REPORT #3

Semester: 2nd Semester

Section: C

Submitted To:

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Submitted By:

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Task 1:

```
#include <iostream>
 using namespace std:
  struct BookRecord
       float price;
      void getdata()
             cout << "Enter the Serial number of the book : ";
   cin >> Sr;
cout << "Enter the price of the book : ";
            «cin»>>*price;
    ···void DisplayPrice()
             cout <<- "The price is : " <<- price <<- endl;
    ···void DisplayData(int i)
            cout <<< "The Book " << ii + 1 << endl;
cout <<< "The serial number is : " << Sr << endl;
cout << "The price is : " << Sr << endl;</pre>
 bool recordAvailable[3] = {false, false, false};
  int bn, choice;
  void Display()
       cout << "\t\t\tMain Menu" << endl;</pre>
      cout << "\nEnter 1 to enter a record";
cout << "\nEnter 2 to dsiplay the record";
cout << "\nEnter 3 to exit" << endl;</pre>
void GetRecord()
    int bn;
getre:
    cout <<< "Enter 1 to enter book 1 record" <<< endl;
cout <<< "Enter 2 to enter book 2 record" <<< endl;
cout <<< "Enter 3 to enter book 3 record" <<< endl;
cout <<< "Enter 4 to go back to Main Menu" <<< endl;</pre>
     cout << "Enter 5 to exit" << endl;
     cin >> bn;
     if (!recordAvailable[bn])
          switch (bn)
                br[0].getdata();
               br[1].getdata();
              br[2].getdata();
          case 4:
               return;
               break:
          case 5:
               exit(0);
           default:
                -break:
           cout << "Record already contains a Book" << endl;</pre>
           goto getre;
```

```
void DisplayRecord()
   char choice;
    get:
       cout <<< "Enter a display the price of a particular book" << endl;</pre>
        cout <<< "Enter b display the record of all books" << endl;</pre>
        cin >> choice;
        switch (choice)
        ····cout <<< "Enter the book number : ";
···cin >>> bn;
          cout << "The price is::" << br[bn -- 1].price << endl;</pre>
          for (int i = 0; i < 3; i++)
               ···br[i].DisplayData(i + 1);
        cout << "wrong input :(";
            goto get;
   ----cin->>-c;
-}-while-(c-=-'Y'-||-c-=-'y');
int main()
         system("cls");
         Display();
     cin >> choice;
              GetRecord();
            DisplayRecord();
             cout << "Wrong input" << endl;</pre>
```

Output:

```
Enter 1 to enter a record

Enter 2 to dsiplay the record

Enter 3 to exit

2

Enter a display the price of a particular book

Enter b display the record of all books

q

wrong input :(Enter a display the price of a particular book

Enter b display the record of all books

a

Enter the book number : 2

The price is : 1242

Would you like to go to the Main Menu (Y/N):
```

Task 2:

```
using namespace std;
      string name;
      int products;
      float revenue;
      void displayData()
           cout << "Name: " << name << endl;
            cout <<< "Number of products: " <<< products << endl;
cout <<< "Revenue: " << revenue << endl;</pre>
      void getdata()
           rcin.ignore();
       ...getline(cin, name);
....cout-<<-"Enter-number-of-products:-";
        cin >> products;
           cin >> revenue:
  struct AliExpress
      string name;
      int products;
      float revenue;
      void displayData()
         cout << "Name: " << name << endl;
cout << "Number of products: " << products << endl;
cout << "Revenue: " -<< revenue << endl;</pre>
    void getdata()
          cin.ignore();
         getline(cin, name);
     cin >> products;
         cout << "Enter revenue: ";</pre>
         ~cin >>> revenue;
struct Draaz
     string name;
    int products;
    float revenue;
    void displayData()
         cout <<< "Name: " << name << endl;
cout <<< "Number of products: " << products << endl;
cout <<< "Revenue: " << revenue << endl;</pre>
     void getdata()
          cin.ignore();
          getline(cin, name);
          cin >> products;
          cin >> revenue;
```

```
void displayMenu()
            cout <<< "Press 1 for Draaz data" <<< endl;
cout <<< "Press 2 for Alibaba data" << endl;
cout <<< "Press 3 for AliExpress data" << endl;
cout <<< "Press 4 to exit" << endl;</pre>
        int main()
            Alibaba alibaba;
            AliExpress aliexpress;
            Draaz draaz;
         int choice;
100
101
                  displayMenu();
                 cin >> choice;
             ----switch (choice)
                 -case 1:
                      draaz.getdata();
draaz.displayData();
                      -break;
                     alibaba.getdata();
                      alibaba.displayData();
                     aliexpress.getdata();
                       aliexpress.displayData();
                 -case 4:
                     cout << "Exiting program..." << endl;</pre>
                      break;
                  default:
                       cout << "Invalid choice. Please enter a number between 1 and 4." << endl;</pre>
             } while (choice != 4);
             return 0;
```

Output:

```
Press 1 for Draaz data
Press 2 for Alibaba data
Press 3 for AliExpress data
Press 4 to exit

1
Enter Draaz name: fashion
Enter number of products: 34654
Enter revenue: 12345
Name: fashion
Number of products: 34654
Revenue: 12345
Press 1 for Draaz data
Press 2 for Alibaba data
Press 3 for AliExpress data
Press 4 to exit
2
```