Bahria University, Karachi Campus



COURSE: CSC -113 Computer Programming lab TERM: SPRING 2020, CLASS: BCE- 2A

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Submitted By:

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TASK 1

Write a C++ that perform following task:

· Create a function *Student ()* that prompt user to a student record. Student contains following details.

ID, Full Name, Email, Department and Phone Number.

- · Store the input in file student.txt
- · In main program call function Student()
- · Program should prompt user that you want to enter a new record. If 'Y' ask user for new details. If 'N', program should terminate. (Use event controlled loop)

PROGRAM:

```
T1.cpp T2.cpp T3.cpp
      #include <iostream>
 1
 2
      #include <fstream>
      #include<string>
 3
      int student();
      using namespace std;
 5
      int main ()
 7 - {
      student();
 8
 9
10
      int student()
11 -
      ofstream studentfile("studentfile.txt",ios::out|ios::app);
12
13
      cout<<"Enter new Record:" <<endl;
      cout<<"----"<<endl;
14
15
      int enroll, Phone;
16
      string Name, Department, Email;
      cout << "Full Name: ";
17
18
      cin>>Name;
      studentfile<<Name<<"\t \t":
19
      cout << "ID: ";
20
21
      cin>>enroll;
      studentfile << enroll << "\t \t";
22
23
      cout<<"Email: ";
24
      cin>>Email;
      studentfile<<Email<<"\t \t";
25
26
     cout << "Department: ";
27
      cin>>Department:
28
      studentfile<<Department<<"\t \t";
      cout << "Phone Number: ";
29
30
      cin>>Phone:
      studentfile<<Phone<<"\t \t \n";
31
      cout<<endl << "======" «<endl;
32
33
      char choice:
      cout ("Do You Want To Enter New Record: (y/n) ";
34
35
      cin>>choice;
      studentfile.close();
36
37
      if(choice=='Y'||choice=='y')
38 - (
      student();
39
40
41
     else if (choice=='N'||choice=='n')
42 - {
43
     return e;
44
```

```
Enter new Record:
Full Name: Umair
ID: 004
Email: umairgujjar@gmail.com
Department: bce2a
Phone Number: 123456789
_____
Do You Want To Enter New Record: (y/n) y
Enter new Record:
Full Name: Muhammad
ID: 005
Email: 004@student.bahria.edu.pk
Department: bce2a
Phone Number: 111222333
______
Do You Want To Enter New Record: (y/n) n
Process exited after 83.72 seconds with return value 0
Press any key to continue . . .
```

TASK 2

PROGRAM:

```
T2.cpp T3.cpp
T1.cpp
      #include <iostream>
 2
      #include <fstream>
 3
      #include<string>
 4
      int student();
 5
      using namespace std;
      int main ()
 6
7 - 1
          ifstream studentfile("studentfile.txt");
8
9
          string line;
10
          while(!studentfile.eof())
11
               getline(studentfile, line);
12
13
              cout<<li>cout<<endl;
14
15
          studentfile.close();
16
```

```
Umair 4 umairgujjar@gmail.com bce2a 123456789
Muhammad 5 004@student.bahria.edu.pk bce2a 111222333

------
Process exited after 0.09212 seconds with return value 0
Press any key to continue . . .
```

TASK 3

Write a C++ program for billing system of MovInPeak restaurant. The program should perform following tasks:

- · Show menu to customer for orders.
- · Allow the customer to select more than one item from the menu.
- · Calculate and print the bill.

Assume that the restaurant offers the following items (the price of each item is shown to the right of the item):

- · Omlet \$1.45
- · French Omlet \$2.45
- · Muffin \$0.99

- · French Toast \$1.99
- · Fruit Basket \$2.49
- · Cereal \$0.69
- · Coffee \$0.75
- · Tea \$0.50

PROGRAM:

```
Т3.срр
T1.cpp T2.cpp
      #include <iostream>
2
      using namespace std;
3
      void displayMenu()
4 - {
         cout<<"=====Welcome to MovenPick===="<<endl;
5
         cout<<"\n***MENU LIST***\n"<<endl;
6
         cout<<"\t 1- Omelet $1.45 "<<endl
7
                  <<"\t 2- French Omelet $2.45 "<<endl
8
                  <<"\t
                         3- Muffin $0.99 "<<endl
9
10
                  <<"\t
                         4- French Toast $1.99 "<<endl
                         5- Fruit Basket $2.49 "<<endl
11
                  <<"\t
12
                  <<"\t
                         6- Cereal $0.69 "<<endl
13
                  <<"\t 7- Coffee $0.75 "<<endl
14
                  <<"\t 8- Tea $0.50 "<<endl
15
                  <<"\t 9- End order "<<endl;
16
      void displayBill(double bill, double totlbill, double tax)
17
18 - (
19
          cout<<fixed;
         cout<<"\nBill = $"<<setprecision(2)<<bill<<endl;</pre>
20
         cout<<"Tax= $"<<setprecision(5)<<tax<<endl;</pre>
21
22
         cout<<"Total amount due= $"<<setprecision(2)<<totlbill<<endl;</pre>
23
      double calculatePrice(int choice)
24
25
26
         switch(choice)
27
28
         case 1:
29
              return 1.45;
30
         case 2:
31
              return 2.45;
32
         case 3:
33
              return 0.99;
34
         case 4:
35
              return 1.99;
36
         case 5:
37
              return 2.49;
         case 6:
38
39
              return 0.69;
48
         case 7:
41
              return 0.75;
42
         case 8:
43
              return 0.50;
44
         default:
```

```
default:
45
             cout<<"Incorrect menu selection, please re enter"<<endl;</pre>
46
             return 0.0;
47
48
49 = int main() {
50
         int choice;
51
         double bill=0.0;
52
         double tax=0.0;
53
         double totbill=0.0;
54
             displayMenu();
55
             cout << endl;
56 -
         while(1){
57
             cout << "Enter menu item: ";
              cin>>choice;
58
59
             if(choice==9)
60
                  break;
61
              bill += calculatePrice(choice);
62
         tax= bill*0.13;
63
64
         totbill=bill+tax;
65
         displayBill(bill,totbill,tax);
66
```

```
_____
Welcome to MovenPick
========
1-Buy
2-Close
BUY-MENU
1-Omlet $1.45
2-French Omlet $2.45
3-Muffin $0.99
4-French Toast $1.99
5-Fruit Basket $2.49
6-Cereal $0.75
7-Coffee $0.75
8-Tea $2.00
9-Aloo Paratha $3.79
10-Coffee With Karan $100
For Confirming The Items press 11
Item Confirmed: Muffin $0.99
______
BUY-MENU
_____
1-Omlet $1.45
```

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```
2-French Omlet $2.45
3-Muffin $0.99
4-French Toast $1.99
5-Fruit Basket $2.49
6-Cereal $0.75
7-Coffee $0.75
8-Tea $2.00
9-Aloo Paratha $3.79
10-Coffee With Karan $100
For Confirming The Items press 11
1
Item Confirmed: French Toast $1.99
BUY-MENU
1-Omlet $1.45
2-French Omlet $2.45
3-Muffin $0.99
4-French Toast $1.99
5-Fruit Basket $2.49
6-Cereal $0.75
7-Coffee $0.75
8-Tea $2.00
9-Aloo Paratha $3.79
10-Coffee With Karan $100
For Confirming The Items press 11
```

```
Item Confirmed: Fruit Basket $2.40
______
BUY-MENU
1-Omlet $1.45
2-French Omlet $2.45
3-Muffin $0.99
4-French Toast $1.99
5-Fruit Basket $2.49
6-Cereal $0.75
7-Coffee $0.75
8-Tea $2.00
9-Aloo Paratha $3.79
10-Coffee With Karan $100
For Confirming The Items press 11
11
============
Please Pay: 5.38
______
_____
Welcome to MovenPick
1-Buy
2-Close
PROGRAM HAS BEEN CLOSED BY USER
Process exited after 13.9 seconds with return value 0
Press any key to continue . .
```