

Bahria University, Islamabad Department of Software Engineering

**Object Oriented Programming** 

Lab (Spring-2024)

Teacher: Engr. M Waleed Khan

Student : Emaan Fatima

Enrollment: 01-131232-020

Lab Journal: 07 Date: 21<sup>th</sup> March 2024

Task No:	Task Wise Marks		Documentation Marks		Total Marks
	Assigned	Obtained	Assigned	Obtained	(25)
1					

Comments:	
	Signature

## Lab No: 07 - OPEN ENDED LAB

# Task 1: Screenshot

### Option 1 functionalities

- This function has subfuncitonalities as shown in output.
- We have also shown each and every functionality by running it one by one.

```
C:\Users\HP Probook 640\source\repos\Project103\x64\Debug\Project103.exe
         UNIVERSITY MANAGEMENT SYSTEM
Menu
1.Student
2.Teacher
3.Course
4.Exit
Select one from the following:
2.Enroll Courses
3. View courses
4.Drop courses
5.Exit
Enter your Name: Emaan
Enter your student ID: 01-131232-020
Enter your Email ID: emaan.mursleen@gmail.com
Name: Emaan
Student ID: 01-131232-020
Email ID: emaan.mursleen@gmail.com
```

```
-----
Select one from the following:
1.Info
2.Enroll Courses
3. View courses
4.Drop courses
5.Exit
Enter the number of courses in which you want to enroll: 2
Courses Offered

    Discrete Structures(DS)

Introduction to Software Engineering(ISE)
Islamic Studies(IS)

    Effective Communication Skills(ECS)

5. Understanding Quran
Object-Oriented Programming(OOP)
Object-Oriented Programming Lab(OOP Lab)
8. Linear Algebra(LA)
Select the course from the list in which you want to get enrolled: 1
Select the course from the list in which you want to get enrolled: 3
```

```
Number of courses: 2
Enrolled Courses:
Discrete Structures (DS)
Effective Communication Skills (ECS)
```

```
C:\Users\HP Probook 640\source\repos\Project103\x64\Debug\Project103.exe

Select one from the following:

1.Info

2.Enroll Courses

3.View courses

4.Drop courses

5.Exit

3
Enrolled Courses:
Discrete Structures (DS)

Effective Communication Skills (ECS)
```

```
Select one from the following:

1.Info

2.Enroll Courses

3.View courses

4.Drop courses

5.Exit

4

Enter the number of courses you want to drop: 1
Enter the code of the course you want to drop: ECS

Course ECS dropped successfully.

Number of courses: 2
Enrolled Courses:

Discrete Structures (DS)
```

#### Option 2 functionalities

- This function has subfuncitonalities as shown in output.
- We have also shown each and every functionality by running it one by one.

```
C:\Users\HP Probook 640\source\repos\Project103\x64\Debug\Project103.exe
-----
        UNIVERSITY MANAGEMENT SYSTEM
Menu
1.Student
2.Teacher
3.Course
4.Exit
Select one from the following
1. Enter Teacher Information
Assign Courses
3. View Courses
4. Remove Courses
5. Exit
^^^^^^^Teacher's information^^^^^^
Enter Teacher ID: 01-131232-040
Enter Teacher Name: Madeiha
Enter Teacher Email: madeihasatti08@gmail.com
```

```
Select one from the following
1. Enter Teacher Information
2. Assign Courses
3. View Courses
4. Remove Courses
5. Exit
Available courses:
1. OOP
2. Linear Algebra
3. Discrete Structure
4. ISE
5. ECS
6. 00P Lab
7. Islamiyat
Enter the numbers corresponding to the courses you want to teach (Max 3): 1
Courses assigned to Madeiha are: OOP, Discrete Structure, Linear Algebra
```

### Option 3 functionalities

- This function has subfuncitonalities as shown in output.
- We have also shown each and every functionality by running it one by one.

```
C:\Users\HP Probook 640\source\repos\Project103\x64\Debug\Project103.exe
         UNIVERSITY MANAGEMENT SYSTEM
Menu
1.Student
2.Teacher
3.Course
4.Exit
^^^^^^^^Teacher's information^^^^^^
Enter Teacher ID: 01-131232-020
Enter Teacher Name: EMAAN
Enter Teacher Email: emaan.mursleen@gmail.com
Select one from the following:
1. Add Student
2. Remove Student
3. View Enrolled Students
4. Save Course Information
5. Load Course Information
6. Exit
1
Enter your Name: emaan
Enter your student ID: 01
Enter your Email ID: emaan@gmail.com
Student added to the course.
```

```
Select one from the following:

1. Add Student

2. Remove Student

3. View Enrolled Students

4. Save Course Information

5. Load Course Information

6. Exit

2
Enter the name of the student you want to remove: emaan
```

Select one from the following:

1. Add Student

2. Remove Student

3. View Enrolled Students

4. Save Course Information

5. Load Course Information

6. Exit

3
Enrolled Students:
emaan

```
Select one from the following:

1. Add Student

2. Remove Student

3. View Enrolled Students

4. Save Course Information

5. Load Course Information

6. Exit

4

Enter the filename to save course information: atudent.cpp

Course information saved successfully.
```

```
Course information saved successfully.

Select one from the following:

1. Add Student

2. Remove Student

3. View Enrolled Students

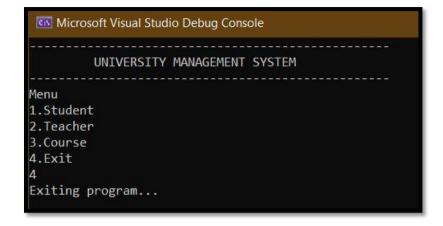
4. Save Course Information

5. Load Course Information

6. Exit

5
Enter the filename to load course information: student.cpp
Unable to open file for reading.

Course information loaded successfully.
```



Github Link

https://github.com/emaanfatim/oop-open-ended

(By Emaan Fatima & Madeiha Arshad)