Bahria University, Islamabad

Department of Software Engineering

Object Oriented Programming

Lab (Spring-2024)

Teacher: Engr. M Waleed Khan

Student   : Madeiha Arshad

Enrollment : 01-131232-040

Lab Journal: 07
Date: 21th March 2024

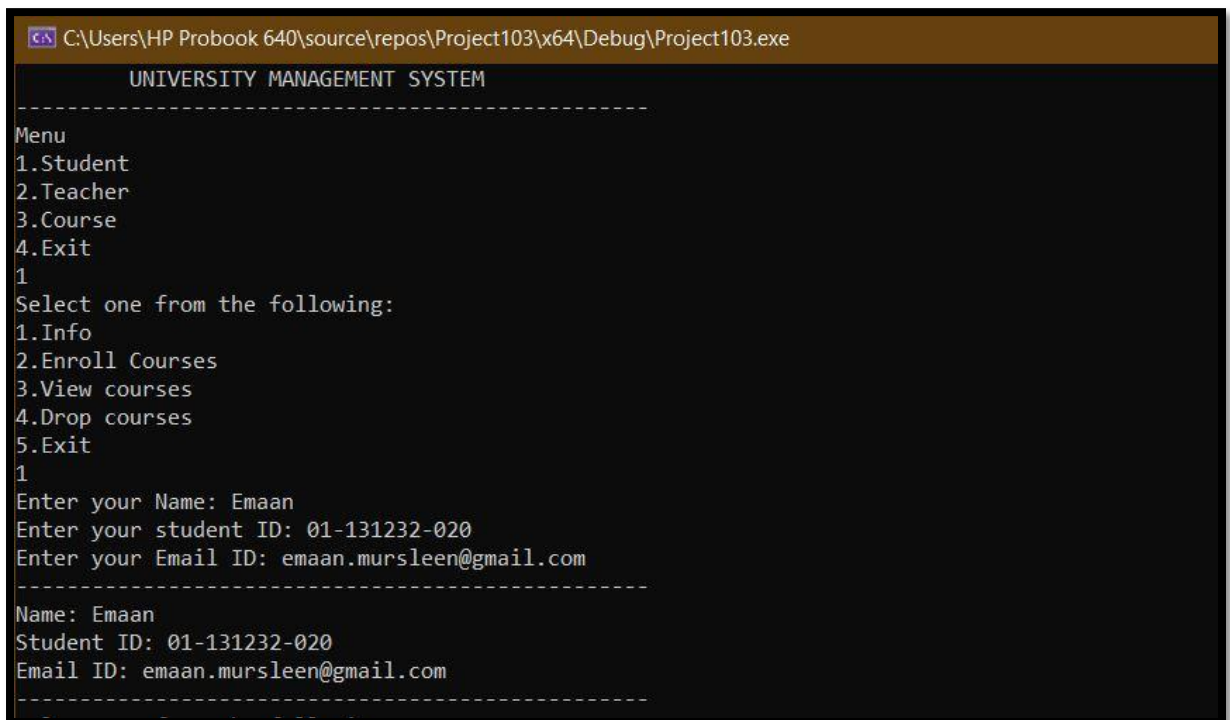| Task No:	Task Wise Marks		Documentation Marks		Total Marks (25)
	Assigned	Obtained	Assigned	Obtained	
1					

Comments:

Signature

Lab No: 07 – OPEN ENDED LAB

Task 1:
Screenshot

<u>Option 1 functionalities</u>

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

```
--------------------------------------------------
Select one from the following:
1.Info
2.Enroll Courses
3.View courses
4.Drop courses
5.Exit
2
Enter the number of courses in which you want to enroll: 2
Courses Offered
 1. Discrete Structures(DS)
2. Introduction to Software Engineering(ISE)
3. Islamic Studies(IS)
4. Effective Communication Skills(ECS)
5. Understanding Quran
6. Object-Oriented Programming(OOP)
7. 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
2
Select one from the following
1. Enter Teacher Information
2. Assign Courses
3. View Courses
4. Remove Courses
5. Exit
1
^^^^^^^^^^^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
2
Available courses:
1. OOP
2. Linear Algebra
3. Discrete Structure
4. ISE
5. ECS
6. OOP Lab
7. Islamiyat
Enter the numbers corresponding to the courses you want to teach (Max 3): 1
3
2
Courses assigned to Madeiha are: OOP, Discrete Structure, Linear Algebra
-------------------------------------------------
```

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

3
Courses assigned to Madeiha are:
Course: Linear Algebra
Teacher ID: 01-131232-040
Teacher Name: Madeiha
Teacher Email: madeihasatti08@gmail.com
-----------------------------------------
Course: Discrete Structure
Teacher ID: 01-131232-040
Teacher Name: Madeiha
Teacher Email: madeihasatti08@gmail.com
-----------------------------------------
Course: OOP
Teacher ID: 01-131232-040
Teacher Name: Madeiha
Teacher Email: madeihasatti08@gmail.com
-----------------------------------------
-------------------------------------------------
```

```
How many courses do you want to remove? 1
Enter the name of course 1 you want to remove: ECS
Course 'ECS' removed successfully.
Courses assigned to madeiha are:
Course: Discrete Structure
Teacher ID: 01-1322-040
Teacher Name: madeiha
Teacher Email: madeiasatti08@gmail.com
-------------------------------------------
Course: Linear Algebra
Teacher ID: 01-1322-040
Teacher Name: madeiha
Teacher Email: madeiasatti08@gmail.com
-------------------------------------------
```

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
3
^^^^^^^^^^^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.
```
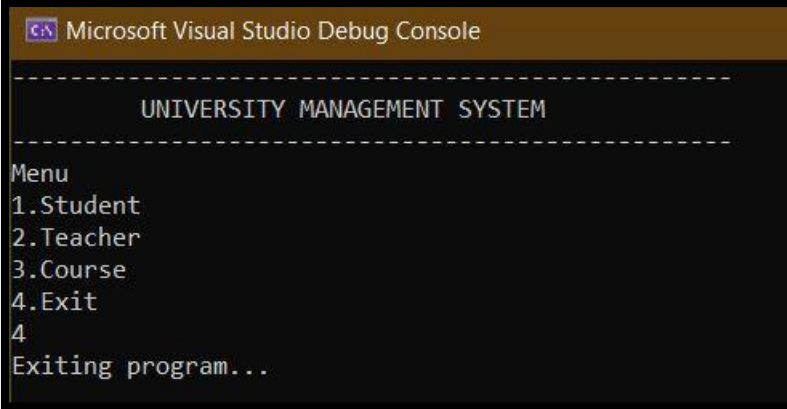
6

```
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)