



FEU INSTITUTE OF TECHNOLOGY

INTEGRATIVE PROGRAMMING AND TECHNOLOGIES

Laboratory Activity 04: List and Tuple

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SECTION	TW23
PROFESSOR	Mr. Joseph Calleja

PROGRAM OUTPUTS

- **PROGRAM MENU:**

```
=====
===== STUDENT RECORD MANAGEMENT =====
[1]. Open File
[2]. Save File
[3]. Save As File
[4]. Show All Students Record
[5]. Show Student Record
[6]. Add Record
[7]. Edit Record
[8]. Delete Record
[0]. Exit
=====
Enter your choice: 
```

INVALID MENU CHOICE:

```
=====
===== STUDENT RECORD MANAGEMENT =====
[1]. Open File
[2]. Save File
[3]. Save As File
[4]. Show All Students Record
[5]. Show Student Record
[6]. Add Record
[7]. Edit Record
[8]. Delete Record
[0]. Exit
=====
Enter your choice: 10
-----
Invalid choice. Try again.
-----
```

- **ADD RECORD (SUCCESSFULLY):**

```
===== ADD RECORD =====  
Enter Student ID (6 digits): 202312  
Enter First Name: Tara  
Enter Last Name: Gerones  
Enter Class Standing Grade: 100  
Enter Exam Grade: 100  
-----  
Student Record Added Successfully.  
-----
```

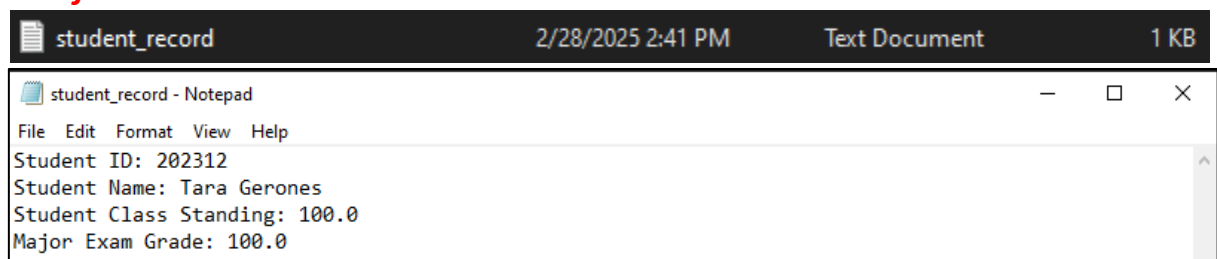
- **INVALID STUDENT ID (NEW RECORD):**

```
===== ADD RECORD =====  
Enter your choice: 6  
===== ADD RECORD =====  
Enter Student ID (6 digits): 2037845  
-----  
Invalid! Student ID must be exactly 6 digits.  
-----  
Enter Student ID (6 digits): |
```

- **SAVE AS**

```
===== ADD RECORD =====  
Enter your choice: 3  
Enter file name: student_record.txt  
-----  
File Saved as student_record.txt.  
-----
```

The file:



- **OPEN FILE:**

```
=====
Enter your choice: 1
Enter the file name you want to open: student_record.txt
-----
File opened successfully.
-----
```

- **INPUT FILE NAME DOES NOT EXIST:**

```
=====
Enter your choice: 1
Enter the file name you want to open: record.txt
-----
File not found.
-----
```

- **SAVE FILE:**

Added another record then saved to student_record.txt:

```
=====
Enter your choice: 6
===== ADD RECORD =====
Enter Student ID (6 digits): 202335
Enter First Name: Diane
Enter Last Name: Alas
Enter Class Standing Grade: 97
Enter Exam Grade: 96
-----
Student Record Added Successfully.
-----
```

Saved output:

```
=====
Enter your choice: 2
-----
Record saved to student_record.txt
-----
```

Updated File Content:

```
*student_record - Notepad
File Edit Format View Help
Student ID: 202312
Student Name: Tara Gerones
Student Class Standing: 100.0
Major Exam Grade: 100.0
Student ID: 202335
Student Name: Diane Alas
Student Class Standing: 97.0
Major Exam Grade: 96.0
```

If no file is opened but the user input choice 2 (save file):

```
=====
Enter your choice: 2
-----
No file opened. Use 'Save As' to specify.
-----
```

- **SHOW ALL STUDENTS RECORD BY LAST NAME:**

```
=====
Enter your choice: 4
=====
Show All Students Record Options:
=====
[1]. Order by Last Name
[2]. Order by Grade
-----
Enter your choice: 1

Show Student Record by Last Name
=====
  ID      Last Name    First Name    Class Standing    Exam Grade
=====
202335   Alas              Diane         97.0              96.0
=====
202312   Gerones           Tara          100.0             100.0
=====
```

- **SHOW ALL STUDENTS RECORD BY GRADES**

```
=====
Enter your choice: 4
=====
Show All Students Record Options:
=====
[1]. Order by Last Name
[2]. Order by Grade
-----
Enter your choice: 2

Show Student Record by Grade
=====
```

ID	Last Name	First Name	Class Standing	Exam Grade
202335	Alas	Diane	97.0	96.0
202312	Gerones	Tara	100.0	100.0

```
=====
```

- **EDIT RECORD**

Edit student ID:

```
=====
Enter your choice: 7
===== EDIT RECORD =====
Enter Student ID to edit: 202335
=====
What do you want to edit?
=====
[1] Student ID
[2] Name
[3] Class Standing
[4] Major Exam Grade
[0] Go Back
-----
Enter your choice: 1
Enter new Student ID: 202343
-----
Student ID updated successfully!
-----
```

Edit Name:

```
=====
What do you want to edit?
=====
[1] Student ID
[2] Name
[3] Class Standing
[4] Major Exam Grade
[0] Go Back
-----
Enter your choice: 2
Enter new First Name: Victoria
Enter new Last Name: Enriquez
-----
Student Name updated successfully!
-----
```

Edit Class Standing:

```
=====
What do you want to edit?
=====
[1] Student ID
[2] Name
[3] Class Standing
[4] Major Exam Grade
[0] Go Back
-----
Enter your choice: 3
Enter new Class Standing: 93
-----
Class Standing updated successfully!
-----
```

Edit Major Exam Grade:

```
=====
What do you want to edit?
=====
[1] Student ID
[2] Name
[3] Class Standing
[4] Major Exam Grade
[0] Go Back
-----
Enter your choice: 4
Enter new Major Exam Grade: 96
-----
Major Exam Grade updated successfully!
-----
```

- **SHOW STUDENT RECORD**
(after editing the record of 202335)

```
=====
Enter your choice: 5
===== SHOW STUDENT RECORD =====
Enter Student ID: 202343
-----
Student ID: 202343
Name: Victoria Enriquez
Class Standing: 93.0
Major Exam: 96.0
=====
```

- **DELETE RECORD**

```
===== DELETE RECORD =====
Enter Student ID to delete: 202312
-----
Record deleted.
-----
```


Deletion Test:

```
=====
Enter your choice: 5
===== SHOW STUDENT RECORD =====
Enter Student ID: 202312
-----
-----
Student not found.
-----
-----
```

- **EXIT**

```
=====
Enter your choice: 0
-----
Thank you. Have a Nice Day!
-----
```