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Integrative Programming and Technologies

Activity 04: List and Tuple

NAME	KIM SHIN E. DEL AMEN
SECTION	TW23
PROFESSOR	Joseph Calleja

Open File (Result):
File Found:

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

File opened successfully.
```
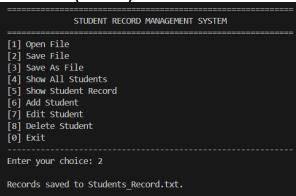
`

No File Found:

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

Error: File not found.


================================================================
              STUDENT RECORD MANAGEMENT SYSTEM
================================================================
```

Save File (Result):

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

Records saved to Students_Record.txt.
```

Students_Record.txt:

```
Student_Records.py 1, U        ≡ Students_Record.txt U ✕
≡ Students_Record.txt
  1      Student ID: 202312
  2      Student Name: Kim Shin Del Amen
  3      Class Standing: 85.0
  4      Major Exam Grade: 95.0
```
5

Save As File (Result):

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

File saved as Students_Record_Updated.txt.
```

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Students_Record_Updated.txt:

```
Student_Records.py 1, U  ×    Students_Record.txt U    Students_Record_Updated.txt U  ×

 Students_Record_Updated.txt
   1    Student ID: 202312
   2    Student Name: Kim Del Amen
   3    Class Standing: 99.0
   4    Major Exam Grade: 100.0
   5    Student ID: 202315
   6    Student Name: Alexa Cueto
   7    Class Standing: 97.0
   8    Major Exam Grade: 98.0
   9    Student ID: 202314
  10    Student Name: Tara Gerones
  11    Class Standing: 95.0
  12    Major Exam Grade: 97.0
  13    Student ID: 202319
  14    Student Name: Norwood Banzuela
  15    Class Standing: 93.0
  16    Major Exam Grade: 95.0
  17    Student ID: 202318
  18    Student Name: Paul Collo
  19    Class Standing: 92.0
  20    Major Exam Grade: 93.0
  21    Student ID: 202313
  22    Student Name: Janna Quiban
  23    Class Standing: 90.0
  24    Major Exam Grade: 95.0
  25    Student ID: 202317
  26    Student Name: Charles Pua
  27    Class Standing: 91.0
  28    Major Exam Grade: 92.0
  29    Student ID: 202316
  30    Student Name: Sheryll Baccay
  31    Class Standing: 90.0
  32    Major Exam Grade: 90.0
  33
```

Show All Students Record (Result):
Order by last name (Result):

```
---------------------------------------------------------
Enter your choice: 4
=====================================
Show All Students Record Options:
=====================================
[1] Order by Last Name
[2] Order by Grade
-----------------------------------------
Enter your choice: 1
==========================================================================
ID          Last Name       First Name      Class Standing  Exam Grade
==========================================================================
202316      Baccay          Sheryll         90.0            90.0
202319      Banzuela        Norwood         93.0            95.0
202318      Collo           Paul            92.0            93.0
202315      Cueto           Alexa           97.0            98.0
202312      Del-Amen        Kim             85.0            95.0
202314      Gerones         Tara            95.0            97.0
202317      Pua             Charles         91.0            92.0
202313      Quiban          Janna           90.0            95.0
==========================================================================
```

Order by grade (Result):

```
===================================================
          STUDENT RECORD MANAGEMENT SYSTEM
===================================================
[1] Open File
[2] Save File
[3] Save As File
[4] Show All Students
[5] Show Student Record
[6] Add Student
[7] Edit Student
[8] Delete Student
[0] Exit
---------------------------------------------------
Enter your choice: 4
===================================
Show All Students Record Options:
===================================
[1] Order by Last Name
[2] Order by Grade
-----------------------------------
Enter your choice: 2
=============================================================
ID          Last Name      First Name    Class Standing  Exam Grade
=============================================================
202312      Del Amen       Kim           99.0            100.0
202315      Cueto          Alexa         97.0            98.0
202314      Gerones        Tara          95.0            97.0
202319      Banzuela       Norwood       93.0            95.0
202318      Collo          Paul          92.0            93.0
202313      Quiban         Janna         90.0            95.0
202317      Pua            Charles       91.0            92.0
202316      Baccay         Sheryll       90.0            90.0
=============================================================
```

No Records Available:

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

No student records available.
```

Show Student Record (Result):

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```
==================================================================
                STUDENT RECORD MANAGEMENT SYSTEM
==================================================================
[1] Open File
[2] Save File
[3] Save As File
[4] Show All Students
[5] Show Student Record
[6] Add Student
[7] Edit Student
[8] Delete Student
[0] Exit
------------------------------------------------------------------
Enter your choice: 5
Enter Student ID to view record: 202317
--------------------------------------------------------

Student Record:
================================================
Student ID      : 202317
Full Name       : Charles Michael Pua
Class Standing  : 91.0
Major Exam Grade: 92.0
================================================
```

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Not Found:

```
========================================================
              STUDENT RECORD MANAGEMENT SYSTEM
========================================================
[1] Open File
[2] Save File
[3] Save As File
[4] Show All Students
[5] Show Student Record
[6] Add Student
[7] Edit Student
[8] Delete Student
[0] Exit
--------------------------------------------------------
Enter your choice: 5
Enter Student ID to view record: 123456
--------------------------------------------------

Student not found.
```

Add Record (Result):

```
========================================================
              STUDENT RECORD MANAGEMENT SYSTEM
========================================================
[1] Open File
[2] Save File
[3] Save As File
[4] Show All Students
[5] Show Student Record
[6] Add Student
[7] Edit Student
[8] Delete Student
[0] Exit
--------------------------------------------------------
Enter your choice: 6
Enter Student ID (6 digits): 202312
Enter First Name: Kim Shin
Enter Last Name: Del Amen
Enter Class Standing: 85
Enter Exam Grade: 95

Student added successfully.
```

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Edit Record (Result):

```
================================================
          STUDENT RECORD MANAGEMENT SYSTEM
================================================
[1] Open File
[2] Save File
[3] Save As File
[4] Show All Students
[5] Show Student Record
[6] Add Student
[7] Edit Student
[8] Delete Student
[0] Exit
------------------------------------------------
Enter your choice: 7
Enter Student ID to edit: 202312
Enter new Student ID (Press Enter to skip):
Enter new First Name (Press Enter to skip):
Enter new Last Name (Press Enter to skip):
Enter new Class Standing (Press Enter to skip): 99
Enter new Exam Grade (Press Enter to skip): 100

Student record updated successfully.
```

Students_Record.txt File:

```
Student ID: 202312
Student Name: Kim Del Amen
Class Standing: 99.0
Major Exam Grade: 100.0
```

Not Found:

```
================================================
          STUDENT RECORD MANAGEMENT SYSTEM
================================================
[1] Open File
[2] Save File
[3] Save As File
[4] Show All Students
[5] Show Student Record
[6] Add Student
[7] Edit Student
[8] Delete Student
[0] Exit
------------------------------------------------
Enter your choice: 7
Enter Student ID to edit: 123456

Student not found.
```

Delete Record (Result):

```
============================================================
                STUDENT RECORD MANAGEMENT SYSTEM
============================================================
[1] Open File
[2] Save File
[3] Save As File
[4] Show All Students
[5] Show Student Record
[6] Add Student
[7] Edit Student
[8] Delete Student
[0] Exit
------------------------------------------------------------
Enter your choice: 8
Enter Student ID to delete: 202319

Student record deleted.
```

```
============================================================
                STUDENT RECORD MANAGEMENT SYSTEM
============================================================
[1] Open File
[2] Save File
[3] Save As File
[4] Show All Students
[5] Show Student Record
[6] Add Student
[7] Edit Student
[8] Delete Student
[0] Exit
------------------------------------------------------------
Enter your choice: 5
Enter Student ID to view record: 202319
-------------------------------------------------

Student not found.
```

Not Found:

```
==========================================================
              STUDENT RECORD MANAGEMENT SYSTEM
==========================================================
[1] Open File
[2] Save File
[3] Save As File
[4] Show All Students
[5] Show Student Record
[6] Add Student
[7] Edit Student
[8] Delete Student
[0] Exit
----------------------------------------------------------
Enter your choice: 8
Enter Student ID to delete: 123456

Student not found.
```

Exit:

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

Exiting program. Goodbye!
```