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Course: Foundation of Programming Python

Assignment 5: Advance Collection and Error Handling

Topic covered in Module 5:

- This module started with concept of data dictionaries. Dictionaries are mutable data structure that allow us to store key-value pairs
- We learned loading data through JSON file. JSON i.e. JavaScript Object Notation is a standardized format used to transfer data as text.
- Error detected during program execution are called Exceptions and we can handle using try and except command.

Assignment

Started the assignment by using starter file and assigned variable for dictionary. Implemented the logic for Error Handling using

Learning

Figure 1 error occurred due to case sensitive in variable name. Fixed this issue by fixing variable name

Figure 1: Student name Error

Figure 2: Error occurred while saving the file via option 3

Fixed this issue by adding the libraries:

from typing import IO

import json

```
What would you like to do: 3 name 'json' is not defined
The file has been closed.
```

Figure 3: Error occurred via menu option 2 while reading the file. There was typing mistake in Enrollment.json file. Replaced Email with LastName to solve this error.

```
File Edit View

[[
{"FirstName": "Bob", "LastName": "Smith", "CourseName": "Python 100"},
{"FirstName": "Sue", "Email": "Jones", "CourseName": "Python 100"}
]
```

Output

Output 1: Using menu option 1 Successfully entered Student Details

```
What would you like to do: 1
Enter the student's first name: kamal
Enter the student's last name: Jeet
Enter the course's name: Python
You have registered kamal Jeet for Python.
```

Output 2: Using menu Option 2 for Show the current data

```
What would you like to do: 2

Student BobSmith is enrolled in Python 100

Student SueJones is enrolled in Python 100

Student kamalJeet is enrolled in Python
```

Option 3: Using Menu 3 Option to Save the data in file:

```
[{"FirstName": "Bob", "LastName": "Smith", "CourseName": "Python 100"}, {"FirstName": "Sue", "LastName": "Jones", "CourseName": "Python 100"}, {"FirstName": "kamal", "LastName": "Jeet", "CourseName": "Python"}]
```

Summary

Error handling helps improving the code as it prompts users to enter correct data.

```
What would you like to do: 1

Enter the student's first name: 123

Student First Name must be alphabets.

Please try again.
```