

Output:

3.1

```
Enter your first name:Rona Mae
Enter your last name:Serrano
Enter your age:21

Full Name: Rona Mae Serrano
Sliced Name: Rona
Greeting: Hello, Rona! Welcome. You are 21 years old.
```

3.2

```
Enter your first name:Rona Mae
Enter your last name:Serrano
Full Name: Rona Mae Serrano
Full Name (Upper Case): RONA MAE SERRANO
Full Name (Lower Case): rona mae serrano
Full Name Length: 16
```

3.3

```
Enter Last name: Serrano
Enter First name: Rona Mae
Enter Age: 21
Enter Contact number: 09686392917
Enter Course: BSIT-BA

Student information has been saved to 'students.txt'.
```

```
3-3.py  students.txt  3-4.
students.txt
1  Last Name: Serrano
2  First Name: Rona Mae
3  Age: 21
4  Contact Number: 09686392917
5  Course: BSIT-BA
6
```

3.4

```
Reading student Information:
Last Name: Serrano
First Name: Rona Mae
Age: 21
Contact Number: 09686839619
Course: BSIT
```

QUESTION AND ANSWER:

1. How does the format() function help in combining variables with text in Python? Can you provide a simple example?

The format() function enables the seamless insertion of variables into a string by replacing {} placeholders with actual values, improving readability and flexibility.

2. Explain the basic difference between opening a file in 'read' mode ('r') and 'write' mode ('w') in Python. When would you use each

- 'r' (read mode) allows access to a file's content but results in an error if the file is missing.
- 'w' (write mode) creates a new file or replaces an existing one, erasing any prior content.

3. Describe what string slicing is in Python. Provide a basic example of extracting a substring from a larger string.

String slicing refers to extracting a specific portion of a string using index values, allowing precise selection of characters within a given range.

4. When saving information to a file in Python, what is the purpose of using the 'a' mode instead of the 'w' mode? Provide a straightforward example.

The 'a' (append mode) preserves existing data while adding new content to a file, whereas 'w' completely overwrites any previous content.

5. Write a simple Python code snippet to open and read a file named "data.txt." How would you handle the case where the file might not exist?

A try-except block can be used to safely open and read the file, preventing errors if the file is missing.