Ramila Jane B. Abobo Finals Assignment #3

BSCS3C

Strings

▪ Creating a String

- ✓ In Python, creating a string is easy. When defining a string, you can use single quotes (') or double quotations (""). It is a sequence of characters that consists of symbol and numbers.

```
my_string1 = 'Hello, World!'

print(my_string1) # Output:  Hello, World!
```

▪ Accessing Characters in the String

- ✓ In Python, indexing allows you to retrieve individual characters from a string. Python strings are zero-indexed, which means that the index of the first character is 0, the index of the second character is 1, and so on. Square brackets ([]) can be used to access characters based on their index.

```
my_string = "Python"

first_char = my_string[0]

print(first_char) # Output: P

substring = my_string[1:3]

print(substring)  # Output: yt
```

▪ Removing Space from a String

- ✓ In Python, you can use the split(), join(), and replace() functions to remove spaces from a string.

```
my_string = "  Hello  World!  "

my_string_without_spaces = my_string.replace(" ", "")

print(my_string_without_spaces)  # Output: HelloWorld!
```

▪ Python String Methods

- ✓ Python offers a wide range of string functions that make it easy to deal with and manipulate strings.

- ✓ upper(): Converts all characters in a string to uppercase.
- ✓ lower(): Converts all characters in a string to lowercase.
- ✓ capitalize(): Capitalizes the first character of the string.
- ✓ title(): Capitalizes the first character of each word in the string.
- ✓ strip(): Removes leading and trailing whitespace from the string.

Python and jupyter notebook

● Launch Jupyter Notebook

- ✓ Open a Terminal or Command Prompt
- ✓ Navigate to your desired directory: Use the cd command to navigate.
- ✓ Activate your Python environment (if applicable)
- ✓ Launch Jupyter Notebook
- ✓ Access Jupyter Notebook in your web browser
- ✓ Create or open a notebook

● Open a notebook file

- ✓ Launch Jupyter Notebook: Open a terminal or command prompt.
- ✓ Access the file browser
- ✓ Navigate to the notebook file
- ✓ Open the notebook
- ✓ Work with the notebook

● Launch Jupyter Notebook

- ✓ Open Command Prompt (Windows) or Terminal (macOS/Linux)
- ✓ Activate Your Python Environment (Optional)
- ✓ Launch Jupyter Notebook
- ✓ Wait for Jupyter Notebook to Start
- ✓ Access Jupyter Notebook in Your Web Browser
- ✓ Start Using Jupyter Notebook

● Start writing a Jupyter Notebook

- ✓ Launch Jupyter Notebook
- ✓ Create a New Notebook
- ✓ Write Code and Text
- ✓ Run Code Cells
- ✓ Add New Cells
- ✓ Save Your Notebook
- ✓ Continue Writing and Running Code