Contribution towards overall module mark	40%
Date set	September 12, 2023,
Marked work returned by	Within 3 weeks of submission
DEADLINES	Deadline: Nov 4, 2023 – 23:59

Assessment 1: Programming Skills Portfolio

Students Name	Andrea Cyra Valenzuela Bautista
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Assignment	** Chapter 1- Getting Started with Python
Brief	Introduction to Python programming:
	Download your code editor and Python Reader.
	Objective: The major objective of this Chapter is to develop and demonstrate fundamental Python programming skills. After completing these exercises, you will have gained proficiency in basic programming tasks like string manipulation, data retrieval, and mathematical computations. Here are the specific 5 goals for this chapter: • Exercise 1: Print Strings Goal: Formatting and printing a predefined string in a particular way. • Exercise 2: Print the Version of Python Goal: Enhance your abilities to access system information by retrieving and displaying the Python version that is being utilized. • Exercise 3: Print date and Time Goal: Show that you can retrieve and display the current date and time, which will expand your understanding of datetime functions.
	Exercise 4: Strings Concatenation Cook Combining multiple strings into a single output, rainforcing your
	Goal: Combining multiple strings into a single output, reinforcing your string manipulation skills.
	 Exercise 5: Compute the Area of a Circle

Goal: Utilize user input to calculate the area of a circle, further enhancing your programming skills and mathematical calculations

**Chapter 2- Variables & Comments –

Objective:

You will get to experience using Python's variables, strings, and arithmetic operations in this project. To bolster your comprehension of these core ideas, you will work through 5 goals for this chapter:

• Exercise 1: Variables

Goal: The goal here was to reinforce knowledge of basic Python variable usage by demonstrating the ability to assign, alter, and output variable values.

• Exercise 2: Variables

Goal: To have experience in the extraction and presentation of data from variables, with a focus on handling string data and formatting requirements.

• Exercise 3: Stripping Names

Goal: To use variables and whitespace characters to make code easier to understand, and to master string stripping routines to increase string manipulation abilities.

• Exercise 4: Favorite Number

Goal: To demonstrate how to combine text and variables to create meaningful messages, improving output formatting and string manipulation skills.

• Exercise 5: USB Shopper

Goal: Using arithmetic operators to solve real-world problems, figure out how many USB sticks are affordable within a certain budget, and improve mathematical

**Chapter 3 Structures -

Objective:

This Chapters aims to strengthen your comprehension of Python lists and how to manipulate them. To improve your ability to deal with lists, you will complete seven activities, each of which focuses on a different set of 7 goals for this chapter:

• Exercise 1: Names

Goal: To show mastery of list building and element access by creating and accessing a list of friends' names.

• Exercise 2: Greetings

Goal: To print and customize messages for every buddy on the list while strengthening the manipulation of list elements and string formatting.

• Exercise 3: Your Own List

Goal: To create statements on preferred forms of transportation, practice making lists and producing simple text output.

• Exercise 4: Guest List

Goal: Improve list manipulation and string handling abilities by creating and sending customized dinner invites to individuals.

• Exercise 5: Change Guest List

Goal: To practice list modification and handle guest list modifications by sending out fresh invites to people who are unable to attend.

**Chapter 4 Control Flow.

Objective:

Gaining a solid knowledge of conditional statements and Python decision-making is the aim of this project. You will do 5 goals for this chapter that cover various facets of if statements and conditional reasoning.

• Exercise 1: Alien Colors #1

Goal: To familiarize yourself with simple if statements and show you how to use them to verify conditions and respond to variables based on their values.

• Exercise 2: Alien Colors #2

Goal: To apply if-else chains to differentiate between two circumstances and handle both possible outcomes in order to deepen our grasp of conditional logic.

• Exercise 3: Alien Colors #3

Goal: To improve the proficiency in conditional logic by employing an ifelif-else chain, distinguishing between various situations, and offering unique answers according to the value of a variable.

• Exercise 4: Stages of Life

Goal: To utilize if-elif-else chains to practice using different circumstances and accompanying messages in order to establish an individual's life stage depending on their age.

• Exercise 5: Favorite Fruit

Goal: To strengthen comprehension of independent if statements so that the application can look for certain fruits in a list and print messages that are tailored to each one if they are found.

**Chapter 5 Dictionaries

Objective:

This Chapter aims to improve your knowledge of Python dictionaries, data representation, and looping across data structures. You will do 5 goals for this chapter that cover various facets of utilizing dictionaries and data representation.

• Exercise 1: Person

Goal: To show how to create and use a dictionary to store and retrieve personal information.

• Exercise 2: Glossary

 Goal: To practice constructing a dictionary that resembles a glossary and links programming words to their definitions while highlighting appropriate formatting and newline usage.

• Exercise 3: Glossary 2

Goal: To increase code efficiency and demonstrate how to iterate over the keys and values of a dictionary, adding new items to the glossary and automatically incorporating them in the output.

• Exercise 4: Rivers

Goal: Using loops to produce lists of related nations and instructive statements, a dictionary representing significant rivers and the countries they flow through will be created.

• Exercise 5: Pets

Goal: Making dictionaries for different pets and storing them is the goal.

**Chapter 6 Loops

Objective:

The purpose of this Goal is to solidify your comprehension of Python looping and control flow. You will finish five Goals that cover various facets of Python loops and decision-making.

• Exercise 1: Pizza Toppings

Goal: To practice putting in place a loop that continuously asks for input from the user and reacts appropriately, so encouraging user involvement and loop control.

• Exercise 2: Movie Tickets

Goal: To improve comprehension of conditional logic and decisionmaking in a practical setting by showing how to utilize loops to calculate ticket pricing based on user input.

• Exercise 3: Infinity

Goal: To observe an infinite loop and become acquainted with its behavior and manual termination techniques, in order to strengthen the understanding of loop control.

• Exercise 4: Deli

Goal: This will allow you to practice list manipulation and iteration while also advancing orders to a finished list.

• Exercise 5: No Pastrami

Goal: The goal is to include a while loop.

**Chapter 7 Functions

Objective:

This Chapter aims to deepen your comprehension of Python functions and delve into the usage of default arguments. You will finish five exercises that cover various facets of parameter management and function construction.

• Exercise 1: Message

Goal: To highlight the design and use of a fundamental function,
"display_message," while also providing information about the learning
objective for this chapter.

• Exercise 2: Favorite Book

Goal: To improve function construction and parameter use abilities by writing the function "favorite_book," which takes a parameter and outputs a customized message about a favorite book.

• Exercise 3: T-Shirt

Goal: To create a function called "make_shirt," which will allow users to create bespoke shirt descriptions and practice using positional and

	keyword arguments. The method will have parameters for shirt size and
	message.
	• Exercise 4: Large Shirts
	Goal: To enable default settings for both size and message in the
	"make_shirt" function, therefore demonstrating the utilization of default
	parameters and producing shirts with a range of sizes and messages.
	• Exercise 5: Cities
	Goal: To develop the function "describe_city," which will allow cities and
	their nations to be described, while also encouraging the use of default
	parameters in functions, by including a default parameter for the country.
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