Weekly progress report on Python (Week – 02)

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Domain: Python

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Week Ending – 01:

1. Overview:

This week, the primary focus was on understanding on how conditional statements in Python works. Additionally, efforts were made to leverage provided e-learning resources for skill enhancement.

1. Learning done this week:

* Introduction to Conditional Statements:

If <condition>:

Statement

* else statement:

The else statement is used along with the if statement to provide an alternative block of code to be executed if the condition in the if statement is false. The code inside the else block is mutually exclusive with the code inside the if block. Only one of them will be executed, depending on whether the if condition is true or false.

* elif statement:

Introduced the elif (else if) statement for handling multiple conditions in a structured manner. Practiced writing code with elif statements to address various scenarios.

* Logical and Comparison Operators:

Explored logical operators (and, or, not) and their application in combining multiple conditions. Reviewed common comparison operators (==, !=, <, >, <=, >=) for comparing values.

1. Challenges and Hurdles:

* Challenge: Understanding the logical and comparison operators.
* Solution: Reviewed examples and practiced using operators in different scenarios from the provided e-book.
* Challenge: Recognizing when to use elif versus multiple if statements.
* Solution: Analysed different use cases and discussed best practices for choosing between elif and multiple if statements.

1. Lessons Learned:

* Understanding the Flow of Execution:

One key lesson was gaining a deeper understanding of how the flow of execution is controlled by conditional statements. This knowledge is crucial for designing programs with logical and predictable outcomes.

* Choosing Between if, elif, and else:

Learned the importance of choosing the appropriate conditional statement (if, elif, or else) based on the specific requirements of the program. This decision significantly impacts code efficiency and clarity.

* Code Readability Matters:

Emphasized the importance of well-organized code and consistent indentation. Clean and readable code not only helps in debugging but also aids collaboration with other developers.

1. Comments:

This week's focus on conditional statements in Python has provided a solid foundation for controlling program flow based on various conditions. The practical examples and exercises have contributed to a deeper understanding of how to effectively use if, else, elif, and related concepts. Thank you for providing me with this opportunity to engage and learn new things in python programming language.