Report

Title:

Python Assignment - Arithmetic Operators, Strings, Lists, and Nested Lists

Introduction:

In this assignment, I explored the basics of arithmetic operators, strings, lists, and nested lists in Python. I learned how to use arithmetic operators to perform mathematical operations, manipulate strings, and work with lists and nested lists to store and manipulate data.

Arithmetic Operators:

- I learned about the different arithmetic operators in Python (+, -, *, /, //,%, **)

- I practiced using these operators to perform mathematical operations

- I understood the concept of operator precedence and how to use parentheses to change the order of operations.

Strings:

- We learned about the different string methods in Python (upper(), lower(), strip(), split(), join()).

- We practiced using these methods to manipulate strings.

- We understood how to use strings in concatenation and repetition.

Lists:

- I learned about the different list methods in Python (append(), extend(), insert(), remove(),

sort()).

- I practiced using these.

- I understood how to use lists in indexing, slicing, and concatenation.

Nested Lists:

- I learned about the concept of nested lists and how to create them.

- I practiced using nested lists to store and manipulate data.

- I understood how to use nested lists in indexing, slicing, and concatenation.

Assignment Tasks:

- I completed several tasks that demonstrated my understanding of arithmetic operators, strings, lists, and nested lists, including:

  - Calculating the area and perimeter of a rectangle using arithmetic operators.

  - Manipulating strings using various string methods.

  - Creating and manipulating lists and nested lists.

  - Using lists and nested lists in indexing, slicing, and concatenation.

Conclusion:

In this assignment, I gained more experience with arithmetic operators, strings, lists, and nested lists in Python. I learned how to use these concepts to perform mathematical operations, manipulate strings, and store and manipulate data in lists and nested lists. I'm now ready to move on to more advanced topics in Python programming.