NNDL_lcp1 code.ipynb

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Write a python program for the following:

Input the string “Python” as a list of characters from console, delete at least 2 characters, reversethe resultant string and print it. Sample input: ·python ·Sample output: ·ntyp

1m

```
# Task 1: Manipulating Strings
input_string = input("Enter a string: ")  # Input the string
char_list = list(input_string)  # Convert the string to a list of characters

if len(char_list) >= 2:  # Ensure there are at least 2 characters to delete
    del char_list[-2:]  # Delete the last two characters
    char_list.reverse()  # Reverse the list
    result = ''.join(char_list)  # Convert the list back to a string
    print("Modified and reversed string:", result)
else:
    print("String must have at least 2 characters to perform the operation.")
```

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[1]

```
Enter a string: python
Modified and reversed string: htyp
```

```
# Task 2: Arithmetic Operations
num1 = float(input("Enter the first number: "))
num2 = float(input("Enter the second number: "))

# Perform arithmetic operations
addition = num1 + num2
subtraction = num1 - num2
multiplication = num1 * num2

# Check if num2 is not 0 to avoid division by zero
if num2 != 0:
    division = num1 / num2
else:
    division = "Undefined (division by zero)"

print("Arithmetic Operations:")
print("Addition:", addition)
print("Subtraction:", subtraction)
```

1m

24s

20s completed at 10:34 AM

[2] ✓ 24s

```
print("Addition:", addition)
print("Subtraction:", subtraction)
print("Multiplication:", multiplication)
print("Division:", division)
```

```
Enter the first number: 1.2
Enter the second number: 2.2
Arithmetic Operations:
Addition: 3.4000000000000004
Subtraction: -1.0000000000000002
Multiplication: 2.64
Division: 0.5454545454545454
```

Write a program that accepts a sentence and replace each occurrence of 'python' with 'pythons'.

✓ 20s

```
def replace_python(sentence):
    replaced_sentence = sentence.replace("python", "pythons")
    return replaced_sentence

input_sentence = input("Enter a sentence: ")
modified_sentence = replace_python(input_sentence)
print("Modified sentence:", modified_sentence)
```

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```
    return replaced_sentence

input_sentence = input("Enter a sentence: ")
modified_sentence = replace_python(input_sentence)
print("Modified sentence:", modified_sentence)
```

```
Enter a sentence: I love playing with python
Modified sentence: I love playing with pythons
```

Use the if statement conditions to write a program to print the letter grade based on an input class score. Use the grading scheme we are using in this class.

```
[4] def calculate_class_grade(score):
        if score >= 90:
            return "A"
        elif score >= 80:
            return "B"
        elif score >= 70:
            return "C"
```

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53s

```
        elif score >= 70:
            return "C"
        elif score >= 60:
            return "D"
        else:
            return "F"

    # Get input class score from the user
    try:
        class_score = float(input("Enter the class score: "))
        if 0 <= class_score <= 100:
            letter_grade = calculate_class_grade(class_score)
            print("The letter grade for the score {:.2f} is: {}".format(class_score, letter_grade))
        else:
            print("Invalid score. Please enter a score between 0 and 100.")
    except ValueError:
        print("Invalid input. Please enter a valid number.")
```

```
Enter the class score: 80
The letter grade for the score 80.00 is: B
```

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