NEURAL NETWORKS AS-1

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1. Write a python program for the following: – Input the string “Python” as a list of characters from console, delete at least 2 characters, reverse the resultant string and print it.

Input

```
input_string = input("enter a string: ")
character_list = list(input_string)
print("List of characters:", character_list)

del character_list[-1]
del character_list[-1]
print("modified list:" , character_list)

reverse_string= character_list.reverse()

reverse_string = ' '.join(character_list)

print("revesered string:", reverse_string)
```

Firstly Input the string then convert the string to a list of characters the delete at least 2 characters using del function the reverse the remaining string using reverse() function the convert the list back to the string and print the resultant string

OUTPUT:

```
enter a string: python
List of characters: ['p', 'y', 't', 'h', 'o', 'n']
modified list: ['p', 'y', 't', 'h']
revesered string: h t y p
```

2. Write a program that accepts a sentence and replace each occurrence of ‘python’ with ‘pythons’.

INPUT:

```
def replace_python(sentence):
    modified_sentence = sentence.replace('python', 'pythons')
    return modified_sentence

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

Firstly define the sentence and use replace() function to replace python with pythons and then call the function to replace python with pythons and then print the modified sentence.

OUTPUT:

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

3. 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.

INPUT:

```python
def calculate_letter_grade(class_score):
    if class_score >= 90:
        return 'A'
    elif class_score >= 80:
        return 'B'
    elif class_score >= 70:
        return 'C'
    elif class_score >= 60:
        return 'D'
    else:
        return 'F'

class_score = float(input("Enter class score: "))

letter_grade = calculate_letter_grade(class_score)

print("Letter grade:", letter_grade)
```

Define class score and use if statements and condition the grading scheme and the give an input and call the function to calculate the letter grade and then print the letter grade.

OUTPUT:

```
Enter class score: 60
Letter grade: D
```

GITHUB LINK

https://github.com/Manesh1712/ICP1_neural

VIDEO FILE

https://drive.google.com/file/d/1Sp7DleZY_d6Pl49HZEV0xANJZhG4IqOq/view?usp=drive_link