Summer-2 2024: CS5720 Neural Networks & Deep Learning - ICP-1

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GitHub Link: https://github.com/VasishtaYakkala/Neural-Network-and-Deep-Learning-icp1/tree/main

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.

Sample input:

• python

Sample output:

• ntyp

– Take two numbers from user and perform at least 4 arithmetic operations on them.

Solution:

Code:

```
# Input the string "Python" as a list of characters from console
input_string = list(input("Enter the string 'Python': "))

# Delete at least 2 characters
if len(input_string) >= 2:
    del input_string[3:5]

# Reverse the resultant string
resultant_string = ''.join(reversed(input_string))

# Print the reversed string
print("Reversed String:", resultant_string)
```

Output:

```
Enter the string 'Python': python
Reversed String: ntyp
```

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

• Sample input:

I love playing with python

• Sample output:

I love playing with pythons

Solution:

Code:

```
# Accept a sentence from the user
sentence = input("Enter a sentence: ")

# Replace each occurrence of 'python' with 'pythons'
modified_sentence = sentence.replace('python', 'pythons')

# Print the modified sentence
print("Modified Sentence:", 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 classscore. Use the grading scheme we are using in this class.

Solution:

Code:

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

# Define grading scheme (you can adjust the score ranges as needed)
A_score = 90
B_score = 80
C_score = 70
D_score = 60

# Use if statements to determine the letter grade
if class_score >= A_score:
    grade = 'A'
elif class_score >= B_score:
    grade = 'B'
elif class_score >= C_score:
    grade = 'C'
elif class_score >= D_score:
    grade = 'D'
else:
    grade = 'F'

# Print the letter grade
```

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

Output:

```
Enter the class score: 90
Letter Grade: A
```