Fall 2023: CS5720

Neural Networks & Deep Learning - ICP-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.

```
# Entering the input
input_string = list(input("Enter the string: "))

# Delete 2 characters from input
chars_to_delete = min(2, len(input_string))
formatted_string = input_string[chars_to_delete:]

# Print the string after deletion
print("String after deleting 2 characters:", formatted_string)

# Reverse the resultant string
reversed_string = ''.join(reversed(formatted_string))

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

Output:

```
C:\Users\manis\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\manis\
Enter the string: Manisha
String after deleting 2 characters: ['n', 'i', 's', 'h', 'a']
Reversed string: ahsin

Process finished with exit code 0
```

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

```
# Enter the input
number1 = float(input("Enter the first number: "))
number2 = float(input("Enter the second number: "))

# Perform arithmetic operations
addition = number1 + number2
subtraction = number1 - number2

# Check if num2 is not zero to avoid division by zero
if number2 != 0:

division = "Cannot divide by zero"

# Print the results
print("Addition:", addition)
print("Subtraction:", subtraction)
print("Multiplication:", division)

print("Division:", division)
```

Output:

```
C:\Users\manis\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\manis\PycharmF
Enter the first number: 25
Enter the second number: 3
Addition: 28.0
Subtraction: 22.0
Multiplication: 75.0
Division: 8.33333333333334
```

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

```
# Enter a sentence as input
input_string = input("Enter a sentence: ")

# Replacing python in sentence with pythons
formatted_sentence = input_string.replace('python', 'pythons')

# Print the formatted sentence
print("The sentence after formatting:", formatted_sentence)
```

Output:

```
Run:

ReplacingAStringWithAnother(1) ×

C:\Users\manis\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\manis\PycharmProjects\pythonProject\
Enter a sentence: Python is a programming language

The sentence after formatting: Python is a programming language

Process finished with exit code 0
```

3. Use the if statement conditions to write a program to print the letter grade based on an input class score.

Output:

