Neural Network Assignment 1

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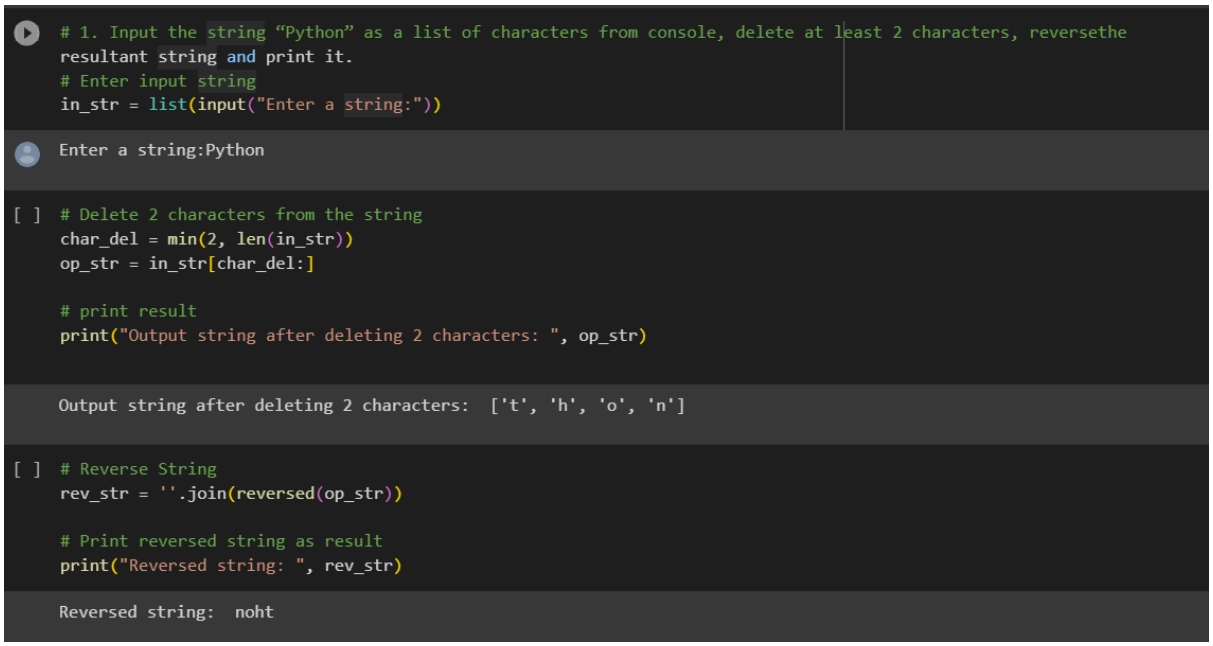
Note: Added the snapshots of the assignments, as it was straightforward code.

Git Hub Link:
https://github.com/srinivasmusinuri/NeuralNetwork_Assignment1

Video Link:
https://drive.google.com/file/d/1ciU8AFXQNswnlYvu0AUy0hI2XYNMYD_i/view?usp=sharing

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



```
# 1. Input the string “Python” as a list of characters from console, delete at least 2 characters, reversethe
resultant string and print it.
# Enter input string
in_str = list(input("Enter a string:"))
```

```
Enter a string:Python
```

```
# Delete 2 characters from the string
char_del = min(2, len(in_str))
op_str = in_str[char_del:]

# print result
print("Output string after deleting 2 characters: ", op_str)
```

```
Output string after deleting 2 characters:  ['t', 'h', 'o', 'n']
```

```
# Reverse String
rev_str = ''.join(reversed(op_str))

# Print reversed string as result
print("Reversed string: ", rev_str)
```

```
Reversed string:  noht
```

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

```
[ ]  # 1b. Take two numbers as user input and perform at least 4 arithmetic operations
     # Enter two numbers as input
     number1 = float(input("Enter first num: "))
     number2 = float(input("Enter second num: "))
```

```
     Enter first num: 5
     Enter second num: 10
```

```
[ ]  # Arithmetic operations addition, substraction, multiplication and division
     Addition = number1 + number2
     Subtraction = number1 - number2
     Multiplication = number1 * number2

     # Print results of addition, substraction and multiplication
     print("Addition: ", Addition)
     print("Substraction: ", Subtraction)
     print("Multiplication: ", Multiplication)
```

```
     Addition:  15.0
     Substraction:  -5.0
     Multiplication:  50.0
```

```
[ ]  # Division operation
     # check number2 is not zero for division
     if number2 != 0:
       Division = number1 / number2
     else:
       Division = "cannot divide by zero"

     # Print result
     print("Division: ", Division)
```

```
     Division:  0.5
```

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

```
[ ]  # 2. Write a program that accepts a sentence and replace each occurrence of 'python' with 'pythons'.
     # Enter sentence as input
     In_Sentence = input("Enter a sentence: ")

     Enter a sentence: I love playing with python

[ ]  #Replace function is used to replace word
     modified_sentence = In_Sentence.replace('python','pythons')

     # print sentence after modification
     print("The sentence after modification: ", modified_sentence)

     The sentence after modification:  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.

```
[ ]  # 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.

     # Enter input score
     score = float(input("Enter total score: "))

     Enter total score: 92

     # Check score based on grading scheme
     if score >= 90:
       letter_grade = 'A'
     elif score >= 80:
       letter_grade = 'B'
     elif score >= 70:
       letter_garde = 'C'
     elif score >= 60:
       letter_grade = 'D'
     else:
       letter_gradegrade = 'F'
     # print grade
     print("Final grade for given score is: ", letter_grade)

     Final grade for given score is:  A
```