# NNDL ICP-1

Student Name: Neeraj Kumar Barigela
Student Id: 700760341

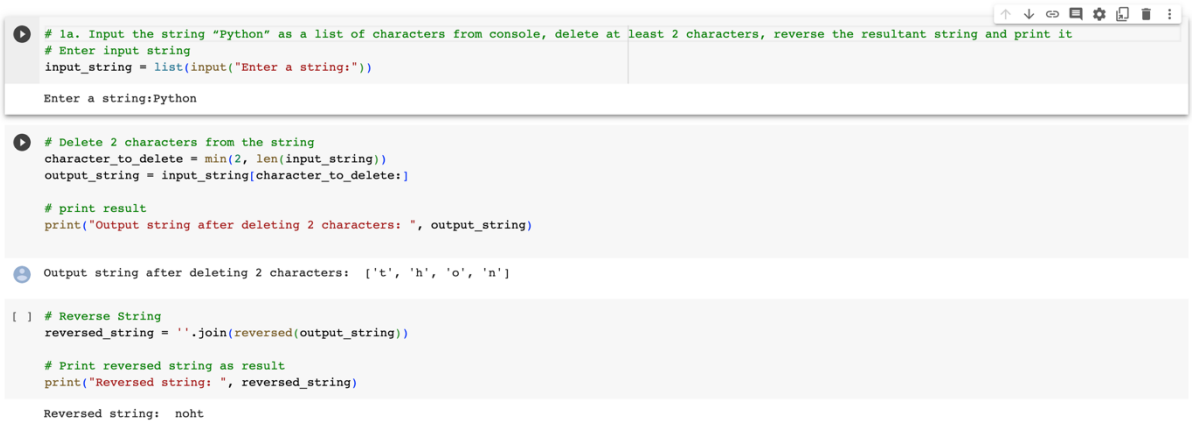
Git Hub Link: https://github.com/neeraj4944/Fall2023_NNDL_ICP1

Video Link:
https://drive.google.com/file/d/1TlMWGv8nc6szB9FiMmzzKR__mUWrK5hf/view?usp=drive_link

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



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

```
Enter a string:Python
```

```
# Delete 2 characters from the string
character_to_delete = min(2, len(input_string))
output_string = input_string[character_to_delete:]

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

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

```
# Reverse String
reversed_string = ''.join(reversed(output_string))

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

```
Reversed string:  noht
```

   – 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
num1 = float(input("Enter first num: "))
num2 = float(input("Enter second num: "))
```

```
Enter first num: 9
Enter second num: 7.5
```

```
# Arithmetic operations addition, substraction, multiplication and division
addition = num1 + num2
subtraction = num1 - num2
multiplication = num1 * num2

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

```
Addition:  16.5
Substraction:  1.5
Multiplication:  67.5
```

```
# Division operation
# check number2 is not zero for division
if num2 != 0:
  division = num1 / num2
else:
  div = "cannot divide by zero"

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

```
Division:  1.2
```

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

```
# 2. Write a program that accepts a sentence and replace each occurrence of ‘python’ with ‘pythons’.
# Enter sentence as input
Input_Sentence = input("Enter a sentence: ")
```

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

```
[ ] #Replace function is used to replace word
mod_sentence = Input_Sentence.replace('python','pythons')

# print sentence after modification
print("The sentence after modification: ", mod_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: 90.5
```

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

```
Final grade for given score is:  A
```