

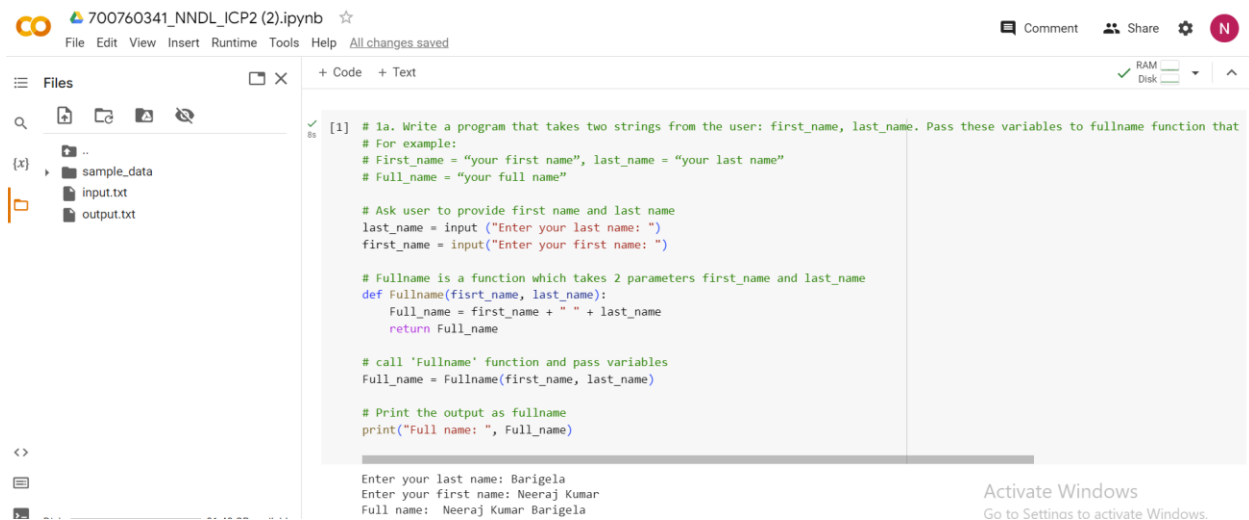
# NNDL ICP2

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GitHub Link: [https://github.com/neeraj4944/Fall2023\\_NNDL\\_ICP2](https://github.com/neeraj4944/Fall2023_NNDL_ICP2)

Video Link: <https://drive.google.com/file/d/1dRMLgne7OdgJc7xEg7oyGibud0C3gUiK/view?usp=sharing>



700760341\_NNDL\_ICP2 (2).ipynb

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RAM Disk

Files

- sample\_data
- input.txt
- output.txt

```
[1] # 1a. Write a program that takes two strings from the user: first_name, last_name. Pass these variables to fullname function that
# For example:
# first_name = "your first name", last_name = "your last name"
# Full_name = "your full name"

# Ask user to provide first name and last name
last_name = input("Enter your last name: ")
first_name = input("Enter your first name: ")

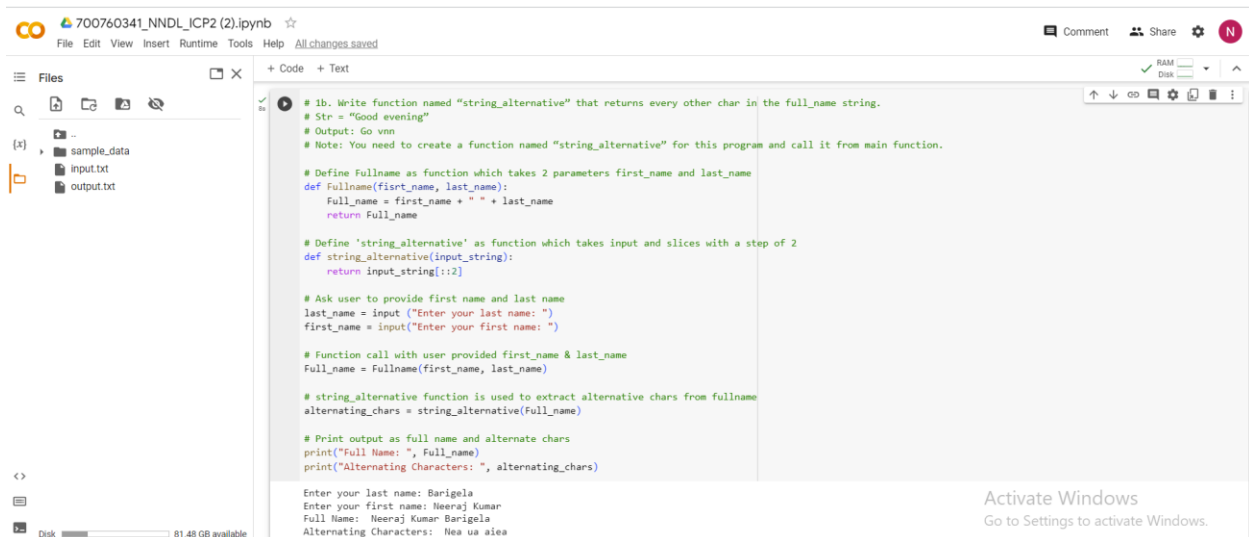
# Fullname is a function which takes 2 parameters first_name and last_name
def Fullname(first_name, last_name):
    Full_name = first_name + " " + last_name
    return Full_name

# call 'Fullname' function and pass variables
Full_name = Fullname(first_name, last_name)

# Print the output as fullname
print("Full name: ", Full_name)
```

Enter your last name: Barigela  
Enter your first name: Neeraj Kumar  
Full name: Neeraj Kumar Barigela

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```
[1] # 1b. Write function named "string_alternative" that returns every other char in the full_name string.
# Str = "Good evening"
# Output: Go vnn
# Note: You need to create a function named "string_alternative" for this program and call it from main function.

# Define Fullname as function which takes 2 parameters first_name and last_name
def Fullname(first_name, last_name):
    Full_name = first_name + " " + last_name
    return Full_name

# Define 'string_alternative' as function which takes input and slices with a step of 2
def string_alternative(input_string):
    return input_string[::2]

# Ask user to provide first name and last name
last_name = input("Enter your last name: ")
first_name = input("Enter your first name: ")

# Function call with user provided first_name & last_name
Full_name = Fullname(first_name, last_name)

# string_alternative function is used to extract alternative chars from fullname
alternating_chars = string_alternative(Full_name)

# Print output as full name and alternate chars
print("Full Name: ", Full_name)
print("Alternating Characters: ", alternating_chars)
```

Enter your last name: Barigela  
Enter your first name: Neeraj Kumar  
Full Name: Neeraj Kumar Barigela  
Alternating Characters: Nea ua aiea

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sample\_data

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output.txt

+ Code + Text

```
[3] # 2. Write a python program to find the wordcount in a file (input.txt) for each line and then print
# Finally store the output in output.txt file.

from os import remove
#Open the file in read mode
text = open("/content/input.txt","r")
d = dict()
for line in text:

    line = line.strip()
    words = line.split(" ")
    for word in words:
        if word in d:
            d[word]= d[word] + 1
        else:
            d[word] = 1

text = open("/content/input.txt","r")
output = text.read()
f= open("/content/output.txt","w")

f.write(output)
f.write("\n Word_Count:\n")
with open("output.txt","a") as f:
    for key, value in d.items():
        f.write("%s:%s\n" % (key, value))
```

output.txt X

1 Python Course
2
3 Deep Learning Course
4 Word\_Count:
5 Python:1
6 Course:2
7 :1
8 Deep:1
9 Learning:1
10

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+ Code + Text

```
[4] # 3. Write a program, which reads heights (inches.) of customers into a list and convert these heights to centimeters in a separate list using:
# 1) Nested Interactive loop.
# 2) List comprehensions
# Example: L1: [150,155, 145, 148]
# Output: [68.03, 70.3, 65.77, 67.13]

L1=[150,155,145,148]
cm=[]
for i in L1:
    cm.append(i*2.54)
L2 = [i*2.54 for i in L1]

print(cm)
print(L2)

[367.5, 379.75, 355.25, 362.6]
[367.5, 379.75, 355.25, 362.6]
```