

# Spring 2024 CS5720

## Neural Networks & Deep Learning - ICP-2

Name: Sravya Reddy Pilli

Student Id: 700747154

Github link : <https://github.com/09sravyareddy/NNDL-ICP2>

Code & Output:

1)

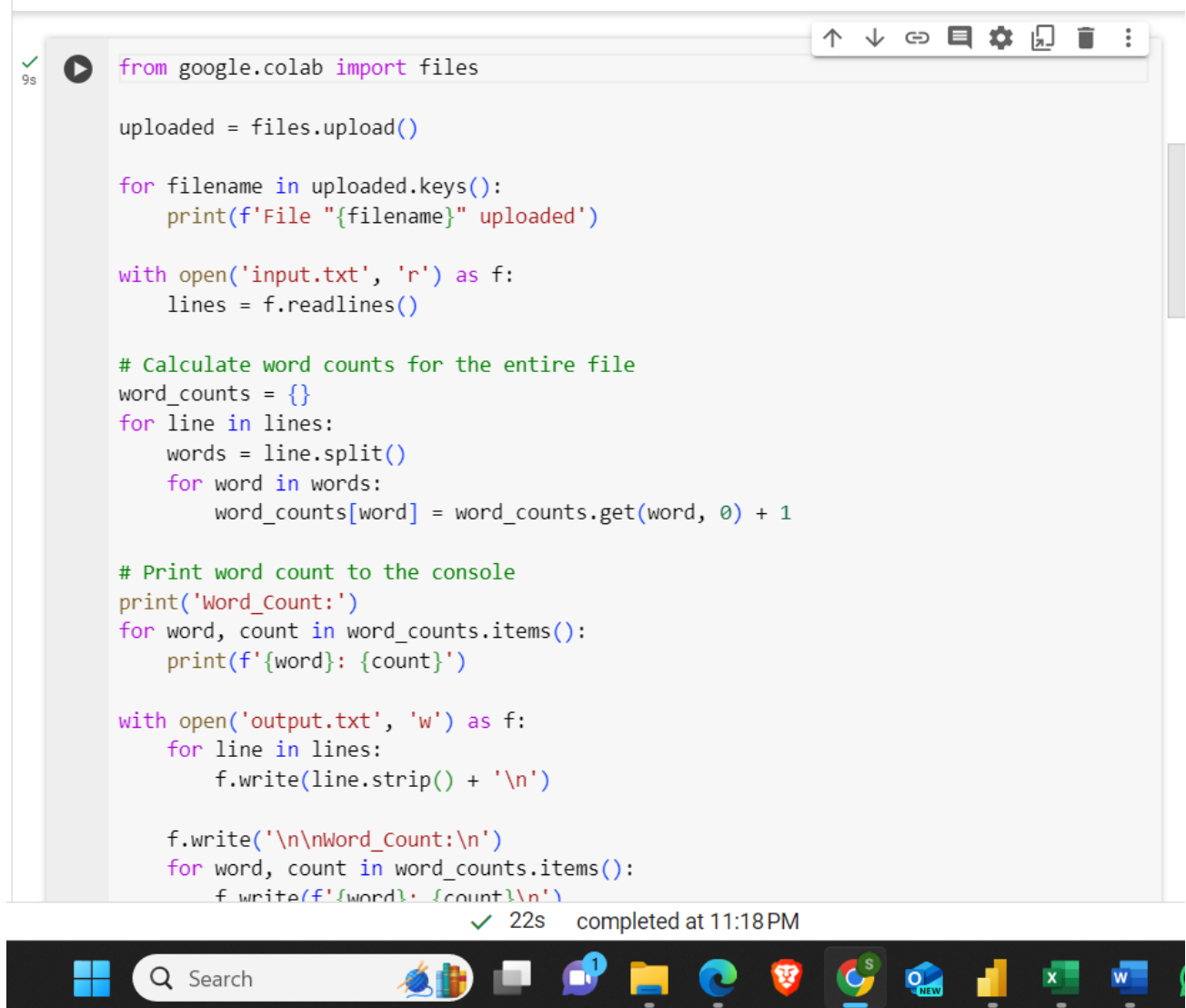
+ Code

+ Text

```
[4] def fullname(first_name, last_name):  
    return first_name + " " + last_name  
  
def string_alternative(full_name):  
    return full_name[::-2]  
  
first_name = input("Enter your first name: ")  
last_name = input("Enter your last name: ")  
  
full_name = fullname(first_name, last_name)  
print(full_name)  
  
alternative_str = string_alternative(full_name)  
print(alternative_str)
```

```
Enter your first name: Sravya  
Enter your last name: Pilli  
Sravya Pilli  
Say Pli
```

2)



```
from google.colab import files

uploaded = files.upload()

for filename in uploaded.keys():
    print(f'File "{filename}" uploaded')

with open('input.txt', 'r') as f:
    lines = f.readlines()

# Calculate word counts for the entire file
word_counts = {}
for line in lines:
    words = line.split()
    for word in words:
        word_counts[word] = word_counts.get(word, 0) + 1

# Print word count to the console
print('Word_Count:')
for word, count in word_counts.items():
    print(f'{word}: {count}')

with open('output.txt', 'w') as f:
    for line in lines:
        f.write(line.strip() + '\n')

    f.write('\n\nWord_Count:\n')
    for word, count in word_counts.items():
        f.write(f'{word}: {count}\n')
```

✓ 22s completed at 11:18 PM

The image shows a Google Colab interface with a Python script. The script imports files from google.colab, uploads a file, and then processes it. It calculates word counts for the entire file and prints them to the console. It also writes the word counts to a file named output.txt. The script is executed successfully, as indicated by the green checkmark and the message '22s completed at 11:18 PM'. The Windows taskbar is visible at the bottom of the screen.

files

9s

✓

▶

↑

↓

..

sample\_data

input (1).txt

input (2).txt

input.txt

output.txt

+ Code + Text

```
f.write(f'{word}: {count}\n')

output_text = ""

for filename in uploaded.keys():
    output_text += f'File "{filename}" uploaded\n'

# Print the output in the console
print(output_text)

# Append the output to the 'output.txt' file
with open('output.txt', 'a') as f:
    f.write(output_text)
```

Choose Files

input.txt

- input.txt(text/plain) - 35 bytes, last modified: 1/17/2024 - 100% done

Saving input.txt to input (2).txt

File "input (2).txt" uploaded

Word\_Count:

Python: 1

Course: 2

Deep: 1

Learning: 1

disk

81.45 GB available

22s

completed at 11:10 PM

## output.txt File:

output.txt X input.txt

```
1 Python Course
2 Deep Learning Course
3
4
5 Word_Count:
6 Python: 1
7 Course: 2
8 Deep: 1
9 Learning: 1
10 File "input (2).txt" uploaded
11
```

3)

+ Code + Text

✓  
10s

```
inches = []
centimeters = []

while True:
    height_inches = input("Enter height in inches (or 'q' to quit): ")
    if height_inches.lower() == 'q':
        break
    height_inches = float(height_inches)
    inches.append(height_inches)
    centimeters.append(height_inches * 2.54)

print("Heights in inches:", inches)
print("Heights in centimeters:", centimeters)
```

```
→ Enter height in inches (or 'q' to quit): 7
Enter height in inches (or 'q' to quit): 9
Enter height in inches (or 'q' to quit): 155
Enter height in inches (or 'q' to quit): 987
Enter height in inches (or 'q' to quit): q
Heights in inches: [7.0, 9.0, 155.0, 987.0]
Heights in centimeters: [17.78, 22.86, 393.7, 2506.98]
```

[25] 987

```
heights_inches = []
while True:
    height_inches = input("Enter height in inches (or 'q' to quit): ")
    if height_inches.lower() == 'q':
        break
    heights_inches.append(float(height_inches))

heights_cm = [height * 2.54 for height in heights_inches]

print("Heights in inches:", heights_inches)
print("Heights in centimeters:", heights_cm)
```

```
Enter height in inches (or 'q' to quit): 7
Enter height in inches (or 'q' to quit): 9
Enter height in inches (or 'q' to quit): 155
Enter height in inches (or 'q' to quit): 987
Enter height in inches (or 'q' to quit): q
Heights in inches: [7.0, 9.0, 155.0, 987.0]
Heights in centimeters: [17.78, 22.86, 393.7, 2506.98]
```

✓ Connected to Python 3 Google Compute Engine