Spring 2024 CS5720

Neural Networks & Deep Learning - ICP-2

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

Code & Output:

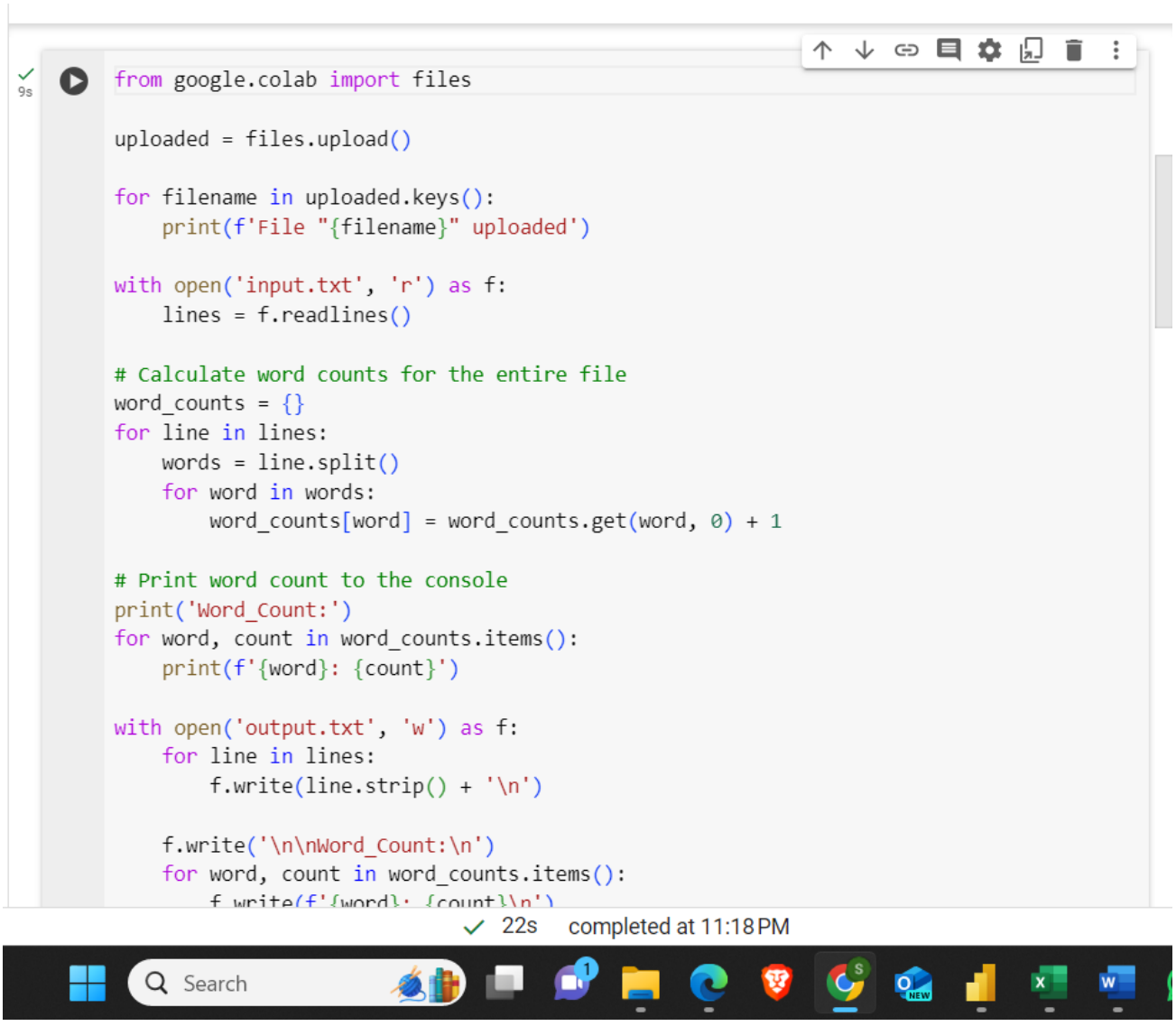
1)

+ Code + Text

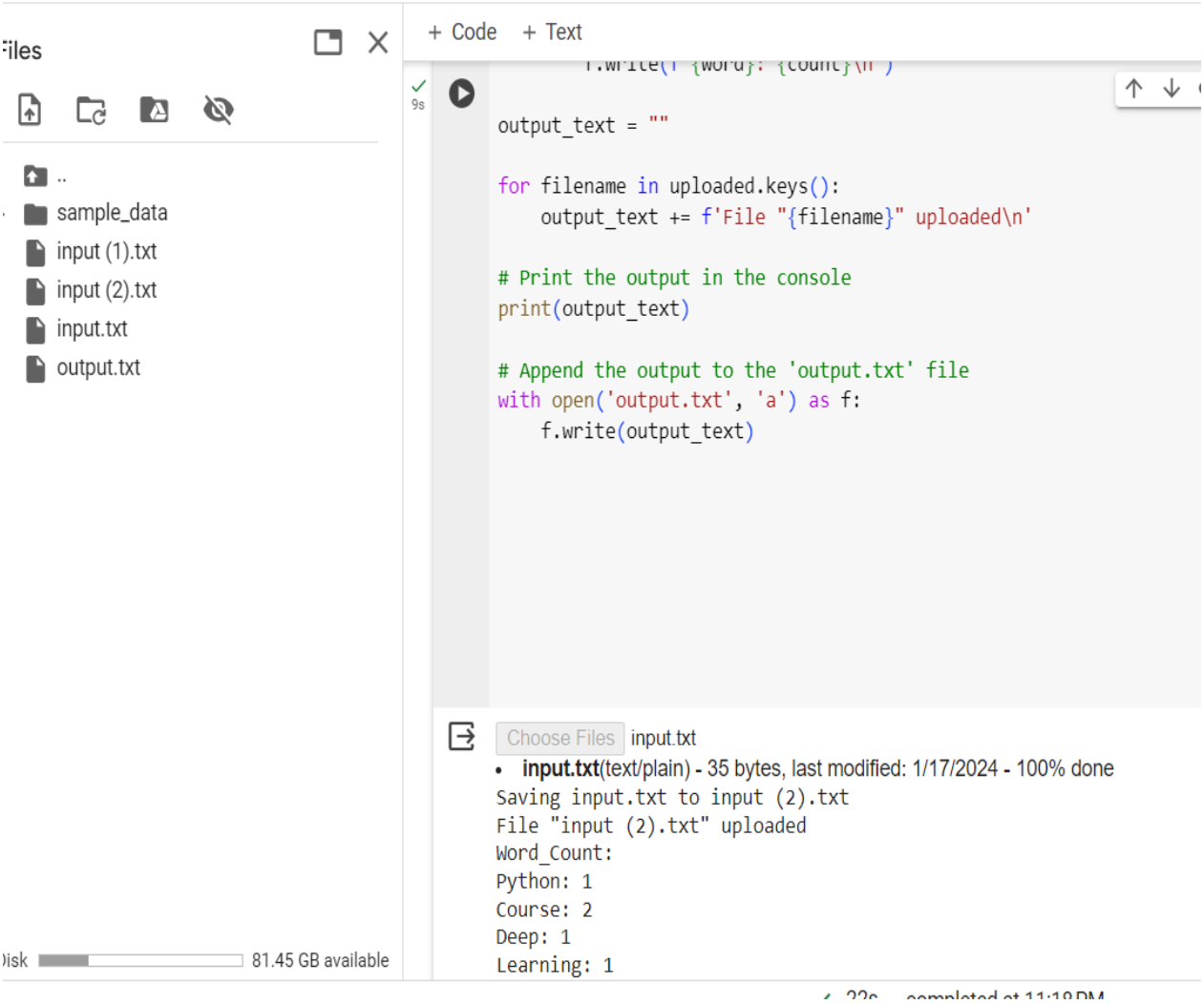
```
[4]  def fullname(first_name, last_name):
       return first_name + " " + last_name

     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
```

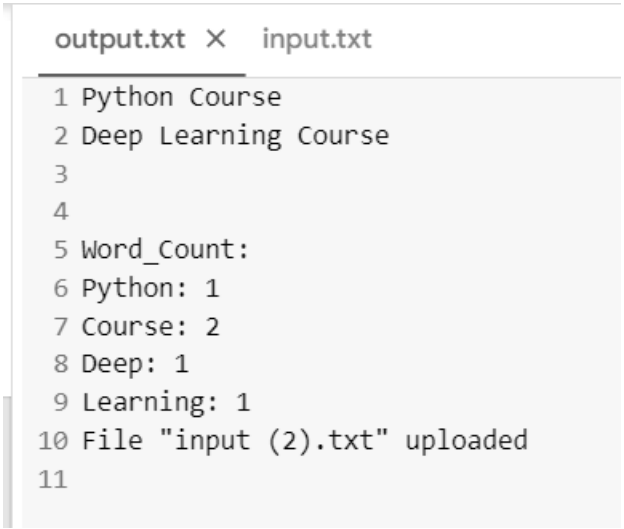
2)



```python
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')
```



output.txt File:



3)

+ Code + Text

```
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]
```

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