Spring 2024: CS5720 Neural Networks & Deep Learning – ICP2

Assignment-2

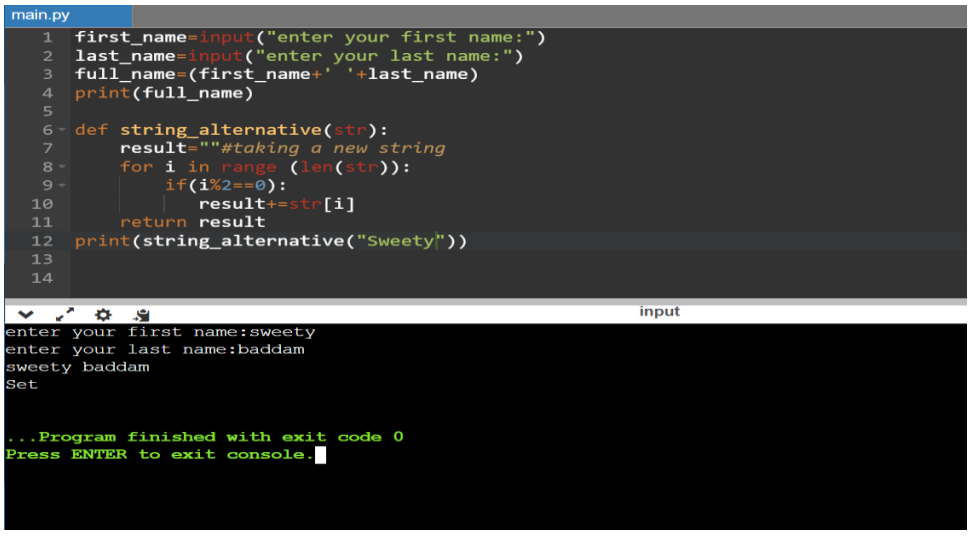
NAME: Sangeetha Baddam
STUDENT ID:700757191

Video Link:
https://drive.google.com/file/d/1XQ6lI2mgHJUyDDxwQYN5f6iSShqMOiwJ/view?usp=drive_link

GitHub Link: https://github.com/Sangeetha-Baddam/Assignment_2

1. Write a program that takes two strings from the user: first name, last name. Pass these variables to full name function that should return the (full name).
   o For example:
      - First name = "your first name", last name = "your last name"
      - Full name = "your full name.
   o 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.



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

Example:

Input: a file includes two lines:

Python Course
Deep Learning Course

Output:

Python Course
Deep Learning Course
Word-count:
Python: 1
Course: 2
Deep: 1
Learning: 1

main.py | input.txt | output.txt

```
input_file = open('input.txt', 'r')#reading the input file
count = dict()# to count
source = input_file.read()# read data from the input file
words = source.split()# splitting the words
for word in words:
    if word in count:
        count[word] += 1
    else:
        count[word] = 1
print(count)
f = open('output.txt', 'w')#writing the output file
f.write(source)
f.write('\nword_count:\n')
for key, value in count.items():
    f.write(f"{key}: {value}\n")
f.close()
```

input

```
{'Python': 1, 'Course': 2, 'Deep': 1, 'Learning': 1}


...Program finished with exit code 0
Press ENTER to exit console.
```

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]

main.py

```
list_inches=list(map(float,input('enter list').split()))#input list in inches
list_cm=[]#new list in cm
for i in list_inches:
    i*=2.54#convertion
    list_cm.append(i)
print(list_cm)  #printion

```

input

```
enter list 145 155
[368.3, 393.7]


...Program finished with exit code 0
Press ENTER to exit console.
```