ASSIGNMENT – 2

DEEP LEARNING NEURAL NETWORKS

Video Link: Assignment2 video file

Github link: GitHub - nagaphaneendra2001/Deep_Learning_Neural_Networks

Naga Phaneendra Kumara Gupta Mogili

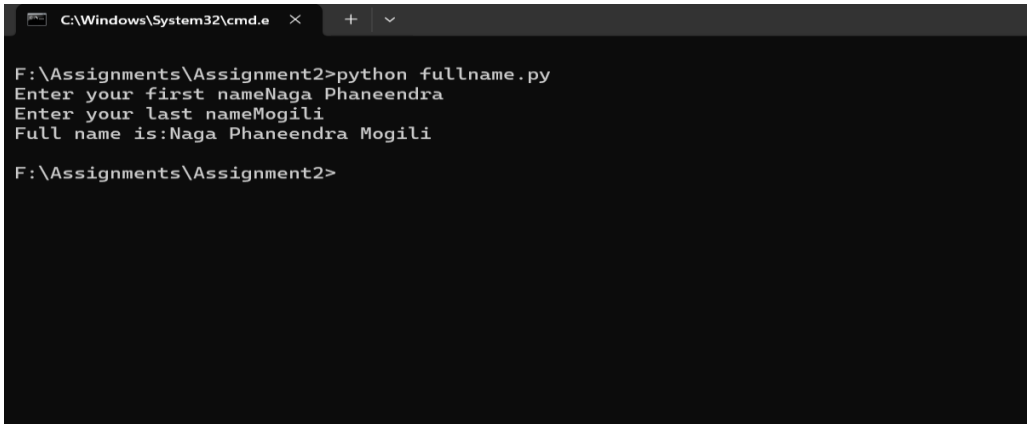
700757977

1. Write a program that takes two strings from the user: first_name, last_name. Pass these variables to fullname 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”

Source Code:

```
def FullName(first_name,last_name):
  return "Full name is:"+first_name+" "+last_name


if __name__ == "__main__":
  first_name = input("Enter your first name")
  last_name = input("Enter your last name")
  print(FullName(first_name,last_name))
```

Output:

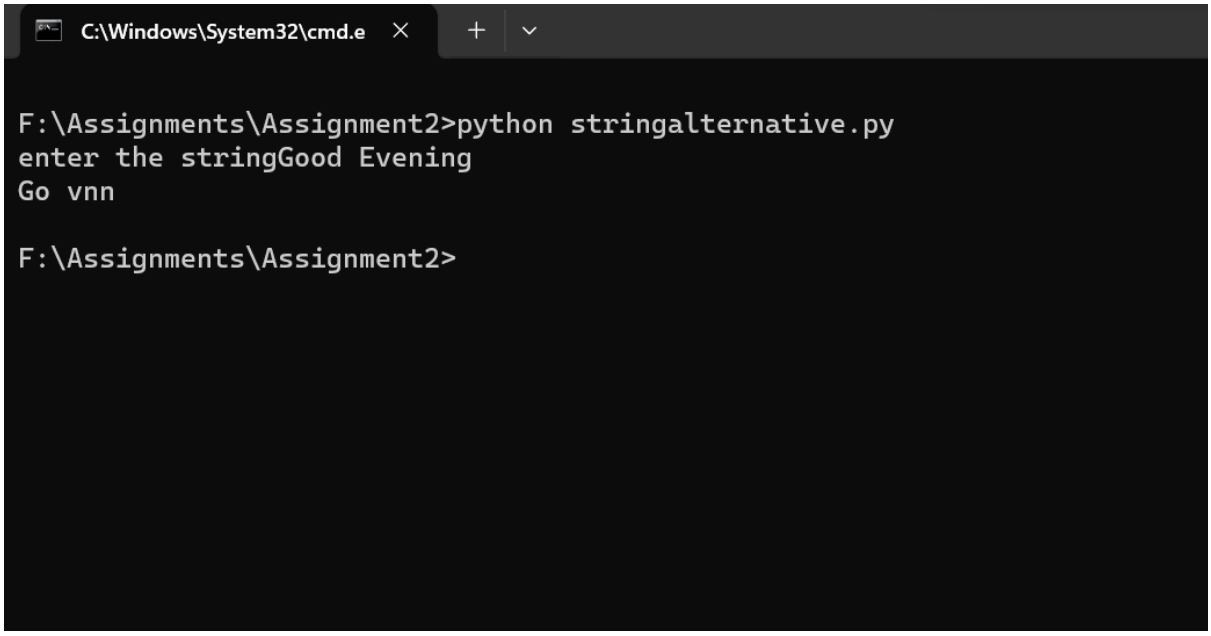


- Write function named “string_alternative” that returns every other char in the full_name string. Str = “Good evening” Output: Go vnn

Source Code:

```
def string_alternative():
  input_string = input("enter the string")
  print(input_string[::2])
if __name__ == "__main__":
  string_alternative()
```

Output:



2. Write a python program to find the wordcount in a file (input.txt) for each line and then print the output. o Finally store the output in output.txt file.
Example:
Input: a file includes two lines:
Python Course
Deep Learning Course
Output:

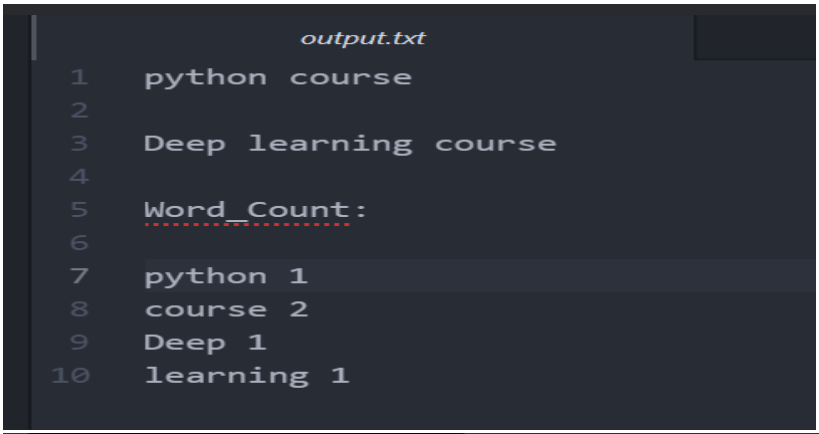
Python Course
Deep Learning Course
Word_Count:
Python: 1
Course: 2
Deep: 1
Learning: 1

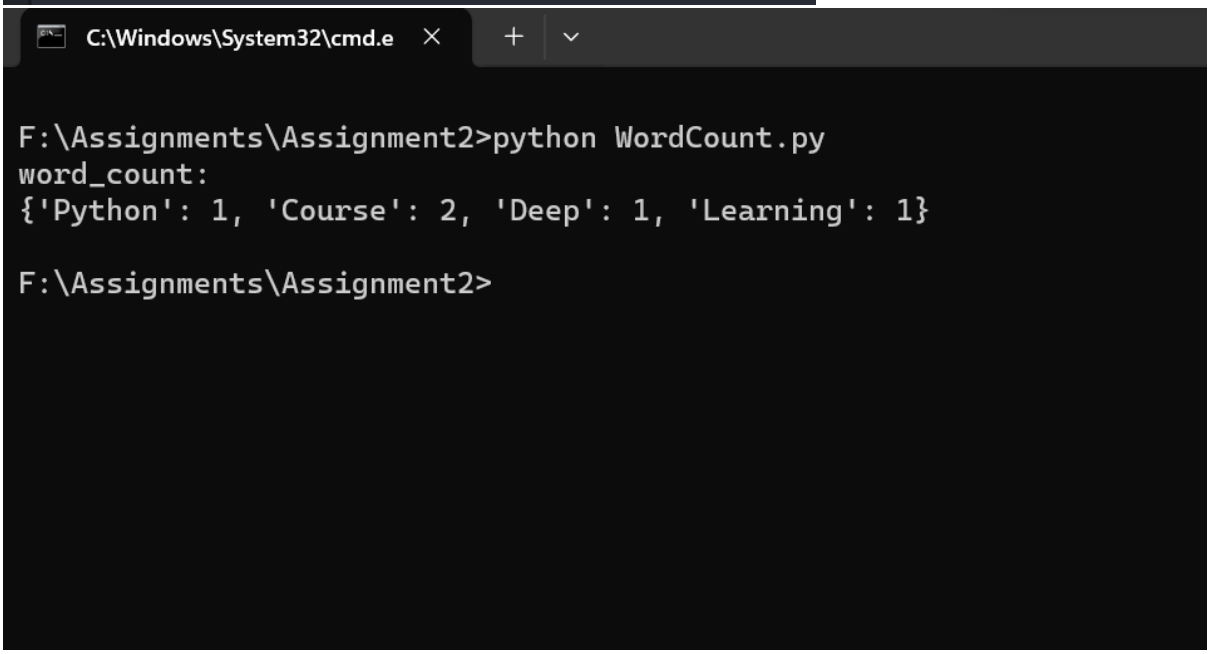
Source Code:

```
def count_word():
   file1 = open("input.txt", "r")
   info = file1.read().split("\n")  # Using split to get a list of words
   file2 = open("output.txt", "w")
   for sentence in info:
      sentence = sentence + "\n" + "\n"
      file2.write(sentence)
   #print(info)
   file1.close()
   file2.write("Word_Count: \n")
   word_count = {}
   for line in info:
      words = line.strip().split(" ")
      #print(x)
      for word in words:
         word_count[word] = word_count.get(word, 0) + 1
   print(“word_count:”)
   print(word_count)
   for word, count in word_count.items():
      entry = "\n" + word + " " + str(count)
      file2.write(entry)

   file2.close()

count_word()
```

Output:

An output.txt is formed and output is written in that file as shown below:



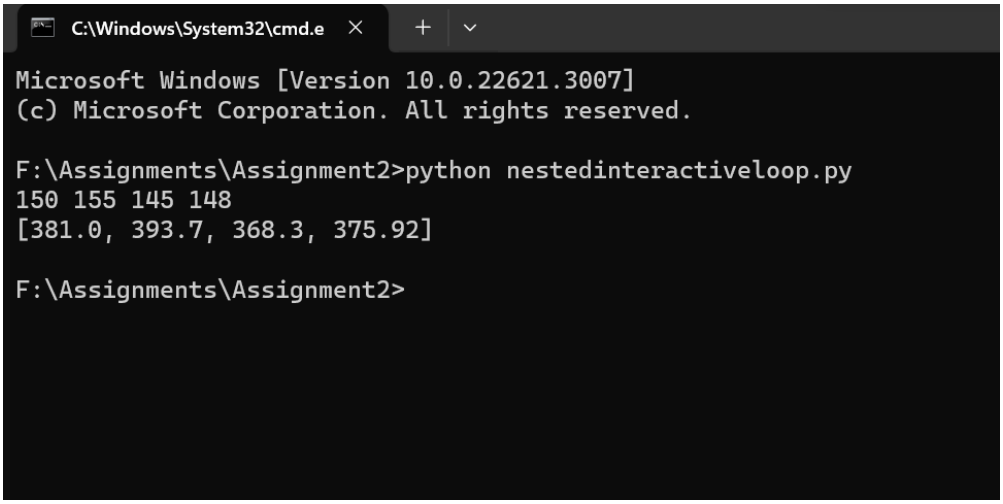


3. Write a program, which reads heights (inches.) of customers into a list and convert these heights to centimeters in a separate list using:
1) Nested Interactive loop.
2) List comprehensions
Example:
L1: [150,155, 145, 148]
Output: [68.03, 70.3, 65.77, 67.13]

1. Source Code(Nested Interactive Loop):

```
list_input_inches = list(map(int,input().split()))
list_output_cm = []
for element in list_input_inches:
    list_output_cm.append(element * 2.54)
print(list_output_cm)
```

Output:



2.Source Code(list comprehension):

```
list_input_inches = [i for i in list(map(int,input().split()))]
list_output_cm = [cm * 2.54 for cm in list_input_inches]
print(list_output_cm)
```

Output: