Neural Assignment-2

Name: Venkatesh Spandan Kumar Saggilla

1.Write a program that takes two strings from the user: first_name, last_name. Pass these variables to the fullname function that should return the (full name).

ID: 700752792

Write a function named "string_alternative" that returns every other char in the full_name string. Str = "Good evening"

```
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```

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

```
2. Write a python program to find the wordcount in a file (input.txt) for each line and then print the output.
Q
{x}
       [ ] with open('input.txt','r') as inputFile:
                 linesCount = 0
⊙ಾ
                 freqWords = {}
                 outputFile = open('output.txt','w')
                 for line in inputFile:
linesCount += 1
                     outputFile.write(line)
                     words = line.strip('\n').split(' ')
                     for word in words:
                         if word in freqWords:
                             freqWords[word] += 1
                             freqWords[word] = 1
                 outputFile.write(' \n Word_Count:')
                 for key,value in freqWords.items():
                     outputFile.write(key + ' : ' + str(value) + '\n')
                 print(freqWords)
```

- 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.

```
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:=
           3. Write a program, which reads heights (inches.) of customers into a list and convert these heights to centimeters in a separate list using:
Q
\{x\} \bigvee_{13s} [C] 1=[]
⊙
             n=int(input("Enter number of customers:"))
             for i in range(n):
              1.append(int(input()))
l1.append(l[i]*2.54)
             print(1)
             print(l1)

→ Enter number of customers:3
             12
             8
             17
             [12, 8, 17]
             [30.48, 20.32, 43.18]
```

2) List comprehensions

```
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∷
           List Comprehensions
Q
\{x\} \bigvee_{48s} \bigcirc def inch_to_cm(inch):
                    return 2.54 * inch
⊙
                   heights_inches = []
                   heights_cms = []
num_customers = int(input("Enter the number of customers: "))
                   \label{eq:heights_inches} \text{heights\_inches} = [\text{float(input(f"Enter height of customer \{i+1\} in inches: "))} \text{ for } i \text{ in range(num\_customers)}]
                   heights_cms = [ inch_to_cm(height) for height in heights_inches]
                   print(heights_cms)

    Enter the number of customers: 4

                  Enter the number of customers: 4
Enter height of customer 1 in inches: 72
Enter height of customer 2 in inches: 64
Enter height of customer 3 in inches: 78
Enter height of customer 4 in inches: 50
[182.88, 162.56, 198.12, 127.0]
```