**Spring 2023: CS5520**

**Neural Networks and Deep Learning - ICP-2**

**GitHub Link to ICP-2:**

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1. 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).

In this program I have used the fullname function. My function calls the full\_name which returns the full name constructed by combining first\_name and last\_name. In the full\_name function, I have used the return keyword to return the computed result of combining the first\_name and last\_name parameters into one string.

The next task of the program is to convert the fullname string in to alternative string.

Using an alternate string function call to take the full name from above as the string to

be processed. I have defined a string alternative function which has a for loop that

append alternate characters and a return statement to return the resultant string.

Below is the screenshot of the output upon execution of the code.

Text

Description automatically generated

1. A python program to find the wordcount in a file (input.txt) for each line and then print the output.

In this program I have created a dictionary for storing the words and the value of count.

Created and input file that has the two lines of content as

Python Course

Deep Learning Course

Using the readlines() method to return the list containing each line in the file as a list item. Using The Strip() method to removes the each line with \n as new line. Then used a split() method to divide the line into words. For each word in line if already in dictionary, then increment count of word by 1 or else adding the word to dictionary with count 1. The contents of dictionary are written in the Output.txt file and the content is printed as shown below.

Text

Description automatically generated

1. A program, which reads heights (inches.) customers into a list and convert these heights to centimeters in a separate list.

In this program I have allowed the user to give the number of customer count using the customer count attribute. I have given the input list that takes the height in inches. We are taking the value of inch as input from the user. Using for loop we are appending the elements into list directly.

The inch value is multiplied by 2.54 to calculate the cm value and is stored. We then iterate the array in which the inputs are stored, and This is also done using List comprehension which helps in creating a new list of heights in cm based on the values of an existing list of heights in inches. we then print the list of heights in cms.

Text

Description automatically generated