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**Code Descriptions**

Program 1: The program takes two strings from the user: first name, last name. Pass these variables to the full name function that should return the (full name).

1. The user strings are taken, stored in the “first \_name”, “last \_name” variables, sent to the function “full \_name” and concatenated into a single string using the ‘+’ operator.
2. The user string is taken, stored in the “original string” variable, sent to the function “string alternative”.
3. Then alternate characters are returned from the function using the slicing operator with a step of 2.

Program 2: The program to find the word count in a file (input.txt) for each line and then print the output.

1. input.txt file is uploaded into the google colab and is accessed with open() method in read only access mode.
2. Contents in the file are accessed and stored in a list called “contents”.
3. The words in the list count are maintained in a dictionary and are used for writing the output into a file.
4. The open() is used to create a file called “output.txt” and contents in the dictionary are copied to the file and are downloaded to the local.

Program 3: The program 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

1. The program takes a series of heights in centimeters as input from the user.
2. First, the heights are converted into inches using a loop. Second, heights are converted into inches using list comprehension.
3. The resultant lists are printed on the console.

Video explanation link: <https://drive.google.com/file/d/1SbksWs7xWBpGFD0mLrYh4U7PNor3UBBR/view?usp=drive_link>