**1.** Given a list of integers, [1, 2, 3, 4, 5], write a list comprehension that returns a new list where each number is squared, cubed and another one as power of itself.

**2a** Write a list comprehension that filters out only the even numbers from the list [10, 15, 20, 25, 30, 35].

2b Write a list comprehenion/for loop that retuns every 4th vlaue in range of 1 to 100

3a. You have a list of strings, ["apple", "banana", "cherry"]. Write a list comprehension that converts each string to uppercase.

3b. Now create a dictionary comprehension to output the fruit as key and length of each character in the fruit as value

**4.** Given a list of numbers [1, 2, 3, 4, 5, 6], write a single list comprehension that returns:

* "even" for each even number, and
* "odd" for each odd number.

**5a** Suppose you have a list of words like ["John", "Jane", "Erick", "Benard", "Comprehension"]. Write a list comprehension that extracts the first letter from each word.

5b. Save the outputs as dictionary using dictionary comprehension to show the name of each individual as key and first charatcer as value

5c. Convert the outputs of number 1 to 5b as functions and test them

6. Using a lists and dictionary of your choice, create a dictionary containing 4 lists (full name, age, wight, location, gender) of 10 students.

7. Convert the output of number six above into pandas dataframes

8. Now create a new dictionary of key as name of students in number six and value as gender of students using dictionary comprehensions

*9. Create a new repository on github, make it private and add me (github name: Lunalo) as external collaborator*

*10. Push your work above into this newly created repository on github*