Please follow the below instructions for the assignment and upload the answers in your Github profile using the Jupyter notebook:

1. Get the input for 2 variables though “input” function and pass them to a function to return the addition of two variables
2. What happens if we try to add an int with str and vice versa. Please print out the error
3. Write a function and pass a number list as an argument to the function. And return True if the first and last number of a given list is same. If numbers are different then return False
4. Iterate the given list of numbers (l1) and print only those numbers which are divisible by 5. (l1 = [10, 20, 33, 46, 55])
5. Write a program to create function calculation() such that it can accept two variables and calculate addition and subtraction. Also, it must **return both addition and subtraction in a single return call**.
   1. Hint: Separate return values with a comma
6. Write a program to demonstrate the following Syntax error
   1. **SyntaxError:** non-default argument follows default argument
7. Use filter and lambda function to calculate square for below numbers only if they are odd number
   1. [12, 11, 53, 22, 21, 77, 87, 88, 98]
8. Write a function (not a lambda function) and use it to demonstrate an example for map function (any logical function of your choice)
9. Write 3 examples on possible methods to changing a tuple
10. Create the string, int and float variable and delete them all in the next cell
11. Create a string variable for the word “Data Science” and see if the letter “s” is present in it using membership operators
12. What’s the result of assigning a value to a ‘keyword’?
    1. Please highlight the error
13. How to write a multi-line statement and assign it to a variable (Note: Without using a backslash “\” at the end of each line)
14. Print the list of numbers from 100 to 999 with an interval (step size) of 8 between the numbers
15. Write a “for” loop to print out the ‘n’ values and break out of the statement if the value is ‘n/2’
16. Write a simple function and call the docstring from outside the function
17. Write a list comprehension to print the odd numbers from 0 to 100
18. Create a variable (ex: name) and store your full name in it. Then write a list comprehension to print your name excluding vowels (a, e, i, o, u)
    1. Ex: name = Imran

Output = [‘m’, ‘r’, ‘n’]

1. What’s recursion? Explain in your own words and write a program to create a **recursive function to calculate the sum of numbers** from 0 to 10

Good luck! 😊