Programming assignment Unit 5:

**Code:**

def display\_name(n):

vowel = 0

reverse = ""

for c in n:

print(c)

reverse = c + reverse

if c == "a" or c == "e" or c == "i" or c == "o" or c == "u":

vowel += 1

print("The name you inserted have", vowel, "vowel letter and its reverse is:", reverse)

name = (input("Insert your name: "))

display\_name(name)

In this program we have one function display\_name() that takes one parameter and it works as follow:

1. First it initializes two local variables, *vowel*, an integer variable which stores vowel letters count, and *reverse*, string variable storing the reverse version of the parameter (name).
2. Starting *for* loop that looks for each character in the argument and store it in local variable *c*, then it prints the variable *c*.
3. After that, in each iteration it took each character and store it in the empty string variable *reverse* to consist the reversed version. Because in each iteration it stores one letter, the first letter will appear the last one because it stored first and so on.
4. The last step in the loop is *if* statement that checks if the name contains a vowel letter by comparing each character with a list of vowel letters provided using the logical operator “or”. If there’s any, it increments the int variable *vowel*, and if not, it's still zero.
5. Finally, the function prints how much vowel letters the argument have, and the reversed version of the argument.

***Examples:***

**Input 1:**

Insert your name: Ahmed

**Output 1:**

A

h

m

e

d

The name you inserted have 1 vowel letter and its reverse is: demhA

**Input 2:**

Insert your name: Lynch

**Output 2:**

L

y

n

c

h

The name you inserted have 0 vowel letter and its reverse is: hcnyL

Thanks.