Name: Student ID:

Instruction: *You can solve the programming questions using the Python interpreter (Idle, Jupyter Notebook, Spyder etc.), just rewrite your answers at the end.*

Question 1. What does a break statement do? What is continue statement used for?

Question 2. Write a script that:
       Step 1. reads a string from the user.
       Step 2. verifies if the string contains only letters
       Step 3. prints "a first, o inside" when the first letter of the string is "a" and there is "o" somewhere in a string, , "maybe a is first, maybe there is o" when "a" is first or there is a letter "o" occuring in the string, or "There is no o in the string" otherwise.

Example 1: "aoaoaoao"
Answer: "a first, o inside"

Example 2: "nonono"
Answer: "maybe a is first, maybe there is o"

Question 3. Write a script that creates two list, list_1 and list_2: list_1 should contain all the odd numbers from 0 to 50, list_2 should contain all the even numbers from 30 to 100. Use the two lists to create one long list that would include elements from list_1 and list_2. Do not nest the lists.
Example 1:
list_1 = [1, 3, 5]
list_2 = [10, 12, 14]
Answer: [1, 3, 5, 10, 12, 14]

Name: Student ID:

Instruction: *You can solve the programming questions using Python (command line, Idle, Jupyter Notebook, Spyder etc.), just rewrite your answers at the end.*

Question 1. What is the difference between the `remove` and `pop` list methods?

Question 2. Write a script that:
      step 1. reads a string from the user,
      step 2. counts how many times a digit 1 and 2 appers in it (separate counts for each digit)
      step 3. prints "Even number of 1 and 2" when the 1 and 2 number is even, "Even number of 1 or 2" when one of the counts is even or "None of the counts is even" otherwise.

Example 1: "1234222222222222222"
Answer: "Even number of 1 or 2"

Example 2: "12234222222222222222"
Answer: "None of the counts is even"

Question 3. Write a script that would verify how many common characters there are in two strings. (`str_1` and `str_2`)
Count only unique characters. Print the answer.
Example 1:
str_1 = "banana"
str_2 = "anna"
Answer: 2

Example 2:
str_1 = "cherry"
str_2 = "chair"
Answer: 3