Assignment 2 Nourhan Emad Mohamed



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 \rightarrow [0, 1, 2, 3, 4, 5]

Overview of Colaboratory Features

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           . Type Shift+Enter to run the cell and move focus to the next cell (adding one if none exists); or
           • Type Alt+Enter to run the cell and insert a new code cell immediately below it.
Q
       There are additional options for running some or all cells in the Runtime menu.
{x}
            # Merge two lists and sort them in ascending order without using sort function
CT Os
             def merge_and_sort(list1, list2):
                 merged_list = list1 + list2 # Combine both lists
# Implementing a simple bubble sort to sort the merged list
                 for i in range(len(merged list)):
                     for j in range(0, len(merged_list) - i - 1):
                         if merged_list[j] > merged_list[j + 1]:
                             # Swap the elements if the current is greater than the next
                             merged_list[j], merged_list[j + 1] = merged_list[j + 1], merged_list[j]
                 return merged_list
             # Example Input
             list1 = [3, 1, 4]
             list2 = [2, 5, 0]
             # Example Output
             print(merge_and_sort(list1, list2))
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```
[2] # Repeat characters in a string 'n' times

def repeat_characters(s, n):
    return ''.join([char * n for char in s])

# Example Input
    s = "abc"
    n = 3

# Example Output
    print(repeat_characters(s, n))

aaabbbccc
```