

# ./Programming Fundamentals using Python - Part 01/Assignment Set - 03/Assignment on string - L

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1: """
2: Given a string containing uppercase characters (A-Z), compress the string using Run Length encoding.
3: Repetition of character has to be replaced by storing the length of that run.
4:
5: Write a python function which performs the run length encoding for a given String and returns the run
6: length encoded String.
7:
8: Provide different String values and test your program
9:
10: =====
11: | Sample Input      | Expected Output |
12: |=====|=====|
13: | AAAABBBBCCCCCCC | 4A4B8C          |
14: | AABCCA           | 2A1B2C1A        |
15: |=====|=====|
16: """
17:
18:
19: def encode(message):
20:     # Remove pass and write your logic here
21:     encoded = ""
22:     message += " "
23:     counter = 1
24:     character = message[0]
25:
26:     for i in range(1, len(message)):
27:         if character == message[i]:
28:             counter = counter + 1
29:
30:         else:
31:             encoded += str(counter) + character
32:             character = message[i]
33:             counter = 1
34:     return encoded
35:
36:
37: encoded_message = encode("ABBBBCCCCCCCCAB")
38: print(encoded_message)
```