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IT0011

## Technical Activity 1

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CortanTA1.py X
TA1 > CortanTA1.py > count_characters
1 def count_characters(input_string):
2     vowels = "aeiouAEIOU"
3     consonants = "bcdfghjklmnpqrstvwxyzBCDFGHJKLMNPQRSTVWXYZ"
4     vowel_count = consonant_count = space_count = other_count = 0
5
6     for char in input_string:
7         if char in vowels:
8             vowel_count += 1
9         elif char in consonants:
10            consonant_count += 1
11        elif char == " ":
12            space_count += 1
13        else:
14            other_count += 1
15
16    print(f"Vowels: {vowel_count}, Consonants: {consonant_count}, Spaces: {space_count}, Others: {other_count}")
17
18 input_string = input("Enter a string: ")
19 count_characters(input_string)
20
21
22
23 def sum_of_digits(input_string):
24     total = 0
25     for char in input_string:
26         if char.isdigit():
27             total += int(char)
28     print(f"Sum of digits: {total}")
29
30 input_string = input("Enter a string containing digits: ")
31 sum_of_digits(input_string)
32
33
34 def pattern_a(n):
35     for i in range(1, n + 1):
36         print(" " * (n - i) + "".join(str(j) for j in range(1, i + 1)))
37
38 n = 5
39 pattern_a(n)
40
41
42
43 def pattern_b(n):
44     i = 1
45     while i <= n:
46         if i % 2 != 0:
47             print(" " * (n - i) + str(i) * i)
48             i += 1
49
50 n = 7
51 pattern_b(n)
52
```