

**[DAY-9 2211cs020196]Write a Python function to clean a given text by removing special characters and converting it to lowercase. Test it with the input: 'Hello, World! Welcome to NLP 101.'** ¶

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In [1]: 1 import re
2 def clean_text(text):
3     """
4     Clean the given text by:
5     1. Removing special characters
6     2. Converting to lowercase
7     3. Removing numeric characters
8     4. Stripping extra spaces
9
10    Args:
11        text (str): The input text to be cleaned.
12
13    Returns:
14        str: The cleaned text.
15    """
16    text = re.sub(r'^a-zA-Z0-9\s', '', text)
17    text = re.sub(r'\d', '', text)
18    text = text.lower()
19    text = ' '.join(text.split())
20    return text
21 input_text = 'Hello, World! Welcome to NLP 101.'
22 cleaned_text = clean_text(input_text)
23 print(f"Original text: {input_text}")
24 print(f"Cleaned text: {cleaned_text}")
25
```

Original text: Hello, World! Welcome to NLP 101.  
Cleaned text: hello world welcome to nlp

```
In [ ]: 1
```