1 # [Day-9 2211cs020206]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

In [1]:
```python
import re
def clean_text(text):
    """
    Clean the given text by:
    1. Removing special characters
    2. Converting to lowercase
    3. Removing numeric characters
    4. Stripping extra spaces

    Args:
        text (str): The input text to be cleaned.

    Returns:
        str: The cleaned text.
    """
    text = re.sub(r'[^a-zA-Z0-9\s]', '', text)
    text = re.sub(r'\d', '', text)
    text = text.lower()
    text = ' '.join(text.split())
    return text
input_text = 'Hello, World! Welcome to NLP 101.'
cleaned_text = clean_text(input_text)
print(f"Original text: {input_text}")
print(f"Cleaned text: {cleaned_text}")
```

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

In [ ]:
```
1
```