```python
def assert_within_range(value, lower_limit, upper_limit):
    """
    Asserts that the given value is within the specified range.

    Parameters:
    - value: The value to be checked.
    - lower_limit: The lower limit of the range (inclusive).
    - upper_limit: The upper limit of the range (inclusive).
    """
    assert lower_limit <= value <= upper_limit, f"Value {value} is not within the specified range [{lower_limit}, {upper_limit}]"
    print(f"Value {value} is within the specified range.")


# Example usage:
try:
    assert_within_range(5, 0, 10)
    assert_within_range(15, 0, 10)  # This should raise an AssertionError
except AssertionError as e:
    print(f"AssertionError: {e}")
```

```
Value 5 is within the specified range.
AssertionError: Value 15 is not within the specified range [0, 10]
```

Start coding or generate with AI.