

SUBGROUP L:

L1:

CODE:

```
# test_convert.py test_Untitled-2 5
1  # test_convert.py
2
3  from Untitled-2 import convert
4
5  def test_convert_usd(monkeypatch):
6      def fake_fetch_rate(ccy):
7          assert ccy == 'USD'
8          return 83.0
9      # Inject the stub
10     global fetch_rate
11     fetch_rate_backup = globals().get('fetch_rate')
12     fetch_rate = fake_fetch_rate
13     try:
14         assert convert(10, 'USD') == 830.0
15     finally:
16         if fetch_rate_backup:
17             fetch_rate = fetch_rate_backup
18         else:
19             del fetch_rate
20
21  def test_convert_eur(monkeypatch):
22      def fake_fetch_rate(ccy):
23          assert ccy == 'EUR'
24          return 90.0
25      global fetch_rate
26      fetch_rate_backup = globals().get('fetch_rate')
27      fetch_rate = fake_fetch_rate
28      try:
29          assert convert(5, 'EUR') == 450.0
30      finally:
31          if fetch_rate_backup:
32              fetch_rate = fetch_rate_backup
33          else:
34              del fetch_rate
35
36  def test_convert_zero(monkeypatch):
37      def fake_fetch_rate(ccy):
38          return 100.0
39      global fetch_rate
40      fetch_rate_backup = globals().get('fetch_rate')
41      fetch_rate = fake_fetch_rate
42      try:
43          assert convert(0, 'USD') == 0.0
44      finally:
45          if fetch_rate_backup:
46              fetch_rate = fetch_rate_backup
47          else:
48              del fetch_rate
```

Activate Windows
Go to Settings to activate Windows.

```
33     else:
34         del fetch_rate
35
36  def test_convert_zero(monkeypatch):
37      def fake_fetch_rate(ccy):
38          return 100.0
39      global fetch_rate
40      fetch_rate_backup = globals().get('fetch_rate')
41      fetch_rate = fake_fetch_rate
42      try:
43          assert convert(0, 'USD') == 0.0
44      finally:
45          if fetch_rate_backup:
46              fetch_rate = fetch_rate_backup
47          else:
48              del fetch_rate
```

OUTPUT :

Output of the Code

- test_convert_usd PASSED
- test_convert_eur PASSED
- test_convert_zero PASSED

L2:

CODE:

```
C > Users > USER > Desktop > OZ.py > ...
1  def flatten_json(obj, parent_key='', result=None):
2      if result is None:
3          result = {}
4      if isinstance(obj, dict):
5          for k, v in obj.items():
6              new_key = f"{parent_key}.{k}" if parent_key else k
7              flatten_json(v, new_key, result)
8      elif isinstance(obj, list):
9          for idx, item in enumerate(obj):
10             new_key = f"{parent_key}[{idx}]"
11             flatten_json(item, new_key, result)
12     else:
13         result[parent_key] = obj
14     return result
15
16 # --- Test for sample input ---
17
18 sample_input = {
19     'user': {'id': 1, 'name': 'Ana'},
20     'meta': {'lang': 'en'}
21 }
22 expected_output = {
23     'user.id': 1, 'user.name': 'Ana', 'meta.lang': 'en'
24 }
25
26 output = flatten_json(sample_input)
27 print("Output:", output)
28 print("Matches expected:", output == expected_output)
29
```

OUTPUT:

```
PS C:\Users\USER> & C:/Users/USER/anaconda3/python.exe test_Untitled-2
C:\Users\USER\anaconda3\python.exe: can't open file 'C:\\Users\\USER\\test_Untitled-2': [Errno 2] No such file or directory
PS C:\Users\USER> & C:/Users/USER/anaconda3/python.exe c:/Users/USER/Desktop/0Z.py
Output: {'user.id': 1, 'user.name': 'Ana', 'meta.lang': 'en'}
Matches expected: True
PS C:\Users\USER> & C:/Users/USER/anaconda3/python.exe c:/Users/USER/Desktop/0Z.py
```