Connected to base (Python 3.12.5)

In [ ]:
```python
from main import load_dataset, get_mean, get_median, get_std, save_to_md, create_boxplot

import numpy as np
import pandas as pd

data = "https://raw.githubusercontent.com/anlane611/datasets/main/population.csv"
dataframe = load_dataset(data)
df_y = dataframe["Y"]

print(df_y)
```

```
0        21.973610
1        12.387638
2        12.665114
3        16.753335
4        22.435229
           ...
99995    23.310289
99996    20.406937
99997    25.335073
99998    29.479947
99999    16.473850
Name: Y, Length: 100000, dtype: float64
```

In [ ]:
```python
print(df_y.describe())
```

```
count    100000.000000
mean         19.975793
std           5.004965
min          -3.058220
25%          16.590524
50%          19.971020
75%          23.351637
max          45.856084
Name: Y, dtype: float64
```

In [ ]:
```python
def test_mean():
    """Test the get_mean function"""
    assert get_mean(df_y) == round(np.mean(df_y), 3)


def test_median():
    """Test the get_median function"""
    assert get_median(df_y) == round(np.median(df_y), 3)


def test_std():
    """Test the get_std function"""
    assert get_std(df_y) == round(np.std(df_y), 3)
```

In [ ]:
```python
if __name__ == "__main__":
    test_mean()
    test_median()
    test_std()
    create_boxplot(df_y, "boxplot.png")
    mean_y = get_mean(df_y)
    median_y = get_median(df_y)
    std_y = get_std(df_y)
    save_to_md(mean_y, median_y, std_y)
```