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Connected to base (Python 3.12.5)
In [ ]: 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)
        print(dataframe)
                     Y X1 X2
             21.973610 4 1
             12.387638 3 1
             12.665114 3 1
             16.753335 1 1
             22.435229 2 1
                   ... .. ..
       99995 23.310289 2 1
       99996 20.406937 4 1
       99997 25.335073 2 1
       99998 29.479947 4 1
       99999 16.473850 2 1
       [100000 rows x 3 columns]
In [ ]: # Print descriptive statistics
        print(dataframe.describe())
        print(get_mean(dataframe["Y"]))
        print(get_median(dataframe["Y"]))
        print(get_std(dataframe["Y"]))
                                      X1
                                                   X2
       count 100000.000000 100000.000000 100000.00000
                 19.975793
                               3.004000
                                              0.99193
       mean
                 5.004965
                               1.379131
                                              0.08947
       std
                                              0.00000
                 -3.058220
                               1.000000
       min
       25%
                 16.590524
                               2.000000
                                              1.00000
                                              1.00000
                 19.971020
                               3.000000
       50%
       75%
                 23.351637
                                4.000000
                                              1.00000
                 45.856084
                               5.000000
                                              1.00000
       max
       19.976
       19.971
       5.005
       5.005
In [ ]: # Define test functions
        def test_mean():
           """Test the get_mean function"""
           assert get_mean(dataframe["Y"]) == round(np.mean(dataframe["Y"]), 3)
            assert get_mean(dataframe["X1"]) == round(np.mean(dataframe["X1"]), 3)
        def test_median():
            """Test the get_median function"""
           assert get_median(dataframe["Y"]) == round(np.median(dataframe["Y"]), 3)
           assert get_median(dataframe["X1"]) == round(np.median(dataframe["X1"]), 3)
       def test_std():
    """Test the get_std function"""
           assert get_std(dataframe["Y"]) == round(np.std(dataframe["Y"]), 3)
           assert get_std(dataframe["X2"]) == round(np.std(dataframe["X2"]), 3)
        if __name__ == "__main__":
           test_mean()
           test_median()
           test_std()
           create_boxplot(dataframe["Y"], "boxplot.png")
           mean_y = get_mean(dataframe["Y"])
           median_y = get_median(dataframe["Y"])
           std_y = get_std(dataframe["Y"])
           save_to_md(mean_y, median_y, std_y)
```

