Enter the sheet number (range 1 - 4) of the dataset to be analyzed: 3

Length(rows) of dataset: 50

Columns used in training dataset (explanatory variables): [0, 2]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.25

y\_test y\_prediction

0 1.00 1.07

1 1.70 1.54

2 1.20 1.39

3 1.00 1.15

4 1.60 1.40

5 1.50 1.40

6 1.50 1.50

7 1.40 1.34

8 1.50 1.53

9 1.30 1.28

10 1.50 1.42

11 1.40 1.47

12 1.30 1.25

R-squared: 0.7142

Enter the sheet number (range 1 - 4) of the dataset to be analyzed: 3

Length(rows) of dataset: 50

Columns used in training dataset (explanatory variables): [0, 1, 2]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.50

y\_test y\_prediction

0 1.40 1.49

1 1.50 1.40

2 1.20 1.22

3 1.00 1.09

4 1.30 1.18

5 1.50 1.17

6 1.10 1.16

7 1.40 1.45

8 1.80 1.56

9 1.50 1.37

10 1.00 1.07

11 1.00 1.03

12 1.30 1.19

13 1.50 1.35

14 1.50 1.46

15 1.30 1.38

16 1.50 1.47

17 1.40 1.41

18 1.30 1.39

19 1.60 1.55

20 1.40 1.44

21 1.30 1.35

22 1.30 1.13

23 1.10 1.11

24 1.60 1.55

R-squared: 0.6722

Enter the sheet number (range 1 - 4) of the dataset to be analyzed: 3

Length(rows) of dataset: 50

Columns used in training dataset (explanatory variables): [0]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.20

y\_test y\_prediction

0 1.40 1.18

1 1.00 1.14

2 1.30 1.27

3 1.00 1.14

4 1.20 1.31

5 1.40 1.56

6 1.40 1.48

7 1.40 1.37

8 1.00 1.25

9 1.40 1.37

R-squared: 0.3654

Length(rows) of dataset: 150

Columns used as features (explanatory variables): 0 - 3

Target (label) column: 4 - The 'Species'

Test size used in the dataset: 0.20

LogisticRegression()

y\_test y\_prediction

0 Iris-versicolor Iris-versicolor

1 Iris-virginica Iris-virginica

2 Iris-setosa Iris-setosa

3 Iris-virginica Iris-virginica

4 Iris-setosa Iris-setosa

5 Iris-virginica Iris-virginica

6 Iris-versicolor Iris-versicolor

7 Iris-virginica Iris-virginica

8 Iris-versicolor Iris-versicolor

9 Iris-versicolor Iris-versicolor

10 Iris-setosa Iris-setosa

11 Iris-setosa Iris-setosa

12 Iris-virginica Iris-virginica

13 Iris-virginica Iris-virginica

14 Iris-setosa Iris-setosa

15 Iris-versicolor Iris-versicolor

16 Iris-setosa Iris-setosa

17 Iris-virginica Iris-virginica

18 Iris-versicolor Iris-versicolor

19 Iris-virginica Iris-virginica

20 Iris-virginica Iris-virginica

21 Iris-setosa Iris-setosa

22 Iris-setosa Iris-setosa

23 Iris-setosa Iris-setosa

24 Iris-versicolor Iris-versicolor

25 Iris-virginica Iris-virginica

26 Iris-virginica Iris-virginica

27 Iris-virginica Iris-virginica

28 Iris-versicolor Iris-versicolor

29 Iris-versicolor Iris-versicolor

R-squared: 1.0000

Length(rows) of dataset: 150

Columns used as features (explanatory variables): 0 - 3

Target (label) column: 4 - The 'Species'

Test size used in the dataset: 0.10

LogisticRegression()

y\_test y\_prediction

0 Iris-versicolor Iris-versicolor

1 Iris-setosa Iris-setosa

2 Iris-setosa Iris-setosa

3 Iris-versicolor Iris-versicolor

4 Iris-versicolor Iris-versicolor

5 Iris-virginica Iris-virginica

6 Iris-virginica Iris-virginica

7 Iris-setosa Iris-setosa

8 Iris-setosa Iris-setosa

9 Iris-virginica Iris-versicolor

10 Iris-versicolor Iris-versicolor

11 Iris-versicolor Iris-versicolor

12 Iris-setosa Iris-setosa

13 Iris-virginica Iris-virginica

14 Iris-versicolor Iris-versicolor

R-squared: 0.9333

Length(rows) of dataset: 150

Columns used as features (explanatory variables): 0 - 3

Target (label) column: 4 - The 'Species'

Test size used in the dataset: 0.15

LogisticRegression()

y\_test y\_prediction

0 Iris-versicolor Iris-versicolor

1 Iris-setosa Iris-setosa

2 Iris-setosa Iris-setosa

3 Iris-virginica Iris-virginica

4 Iris-versicolor Iris-versicolor

5 Iris-setosa Iris-setosa

6 Iris-virginica Iris-virginica

7 Iris-versicolor Iris-versicolor

8 Iris-virginica Iris-virginica

9 Iris-virginica Iris-virginica

10 Iris-setosa Iris-setosa

11 Iris-virginica Iris-virginica

12 Iris-versicolor Iris-versicolor

13 Iris-setosa Iris-setosa

14 Iris-setosa Iris-setosa

15 Iris-versicolor Iris-versicolor

16 Iris-virginica Iris-virginica

17 Iris-versicolor Iris-versicolor

18 Iris-versicolor Iris-versicolor

19 Iris-setosa Iris-setosa

20 Iris-setosa Iris-setosa

21 Iris-versicolor Iris-virginica

22 Iris-setosa Iris-setosa

R-squared: 0.9565

Length(rows) of dataset: 150

Columns used as features (explanatory variables): 0 - 3

Target (label) column: 4 - The 'Species'

Test size used in the dataset: 0.21

LogisticRegression()

y\_test y\_prediction

0 Iris-versicolor Iris-versicolor

1 Iris-versicolor Iris-versicolor

2 Iris-setosa Iris-setosa

3 Iris-setosa Iris-setosa

4 Iris-versicolor Iris-versicolor

5 Iris-setosa Iris-setosa

6 Iris-versicolor Iris-versicolor

7 Iris-setosa Iris-setosa

8 Iris-setosa Iris-setosa

9 Iris-versicolor Iris-versicolor

10 Iris-setosa Iris-setosa

11 Iris-versicolor Iris-versicolor

12 Iris-virginica Iris-virginica

13 Iris-setosa Iris-setosa

14 Iris-setosa Iris-setosa

15 Iris-virginica Iris-virginica

16 Iris-versicolor Iris-versicolor

17 Iris-virginica Iris-virginica

18 Iris-virginica Iris-virginica

19 Iris-virginica Iris-virginica

20 Iris-virginica Iris-virginica

21 Iris-versicolor Iris-versicolor

22 Iris-versicolor Iris-versicolor

23 Iris-versicolor Iris-versicolor

24 Iris-setosa Iris-setosa

25 Iris-virginica Iris-virginica

26 Iris-virginica Iris-versicolor

27 Iris-setosa Iris-setosa

28 Iris-setosa Iris-setosa

29 Iris-virginica Iris-virginica

30 Iris-setosa Iris-setosa

31 Iris-setosa Iris-setosa

R-squared: 0.9688

Length(rows) of dataset: 150

Columns used as features (explanatory variables): 0 - 3

Target (label) column: 4 - The 'Species'

Test size used in the dataset: 0.14

LogisticRegression()

y\_test y\_prediction

0 Iris-virginica Iris-virginica

1 Iris-versicolor Iris-versicolor

2 Iris-virginica Iris-versicolor

3 Iris-setosa Iris-setosa

4 Iris-setosa Iris-setosa

5 Iris-versicolor Iris-versicolor

6 Iris-virginica Iris-virginica

7 Iris-setosa Iris-setosa

8 Iris-versicolor Iris-versicolor

9 Iris-setosa Iris-setosa

10 Iris-versicolor Iris-versicolor

11 Iris-versicolor Iris-versicolor

12 Iris-virginica Iris-versicolor

13 Iris-virginica Iris-virginica

14 Iris-setosa Iris-setosa

15 Iris-versicolor Iris-versicolor

16 Iris-versicolor Iris-versicolor

17 Iris-setosa Iris-setosa

18 Iris-virginica Iris-virginica

19 Iris-versicolor Iris-versicolor

20 Iris-virginica Iris-virginica

21 Iris-versicolor Iris-versicolor

R-squared: 0.9091

TEST CASE 2

Enter the sheet number (range 1 - 4) of the dataset to be analyzed: 3

Length(rows) of dataset: 50

Columns used in training dataset (explanatory variables): [0, 1, 2]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.20

y\_test y\_prediction

0 1.20 1.38

1 1.60 1.53

2 1.00 1.13

3 1.20 1.22

4 1.70 1.53

5 1.00 1.02

6 1.50 1.48

7 1.40 1.38

8 1.50 1.42

9 1.00 1.28

R-squared: 0.7314

SHEET 1

Enter the sheet number (range 1 - 4) of the dataset to be analyzed: 1

Length(rows) of dataset: 150

Columns used in training dataset (explanatory variables): [0, 1, 2]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.20

y\_test y\_prediction

0 1.00 1.00

1 0.40 0.33

2 0.10 0.18

3 1.80 1.61

4 2.30 2.14

5 0.20 0.30

6 0.20 0.35

7 1.50 1.40

8 2.10 1.89

9 1.90 1.82

10 2.20 1.98

11 1.60 1.62

12 0.10 0.39

13 0.30 0.23

14 1.00 1.31

15 1.40 1.37

16 1.50 1.45

17 0.30 0.34

18 1.00 0.97

19 1.80 2.11

20 2.30 2.05

21 1.20 1.44

22 0.20 0.26

23 1.80 1.76

24 0.40 0.20

25 2.30 1.91

26 1.40 1.60

27 1.30 1.42

28 0.10 0.23

29 1.00 1.01

R-squared: 0.9479

Enter the sheet number (range 1 - 4) of the dataset to be analyzed: 1

Length(rows) of dataset: 150

Columns used in training dataset (explanatory variables): [1, 2]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.13

y\_test y\_prediction

0 1.30 1.22

1 0.20 0.20

2 1.50 1.54

3 2.10 1.94

4 1.30 1.37

5 0.20 0.14

6 0.50 0.33

7 2.00 2.45

8 1.20 1.21

9 1.60 1.73

10 1.80 1.67

11 2.00 1.66

12 1.00 1.02

13 0.30 0.31

14 0.60 0.31

15 0.20 0.26

16 1.00 1.29

17 0.30 0.02

18 0.30 0.18

19 1.70 1.44

R-squared: 0.9158

Enter the sheet number (range 1 - 4) of the dataset to be analyzed: 1

Length(rows) of dataset: 150

Columns used in training dataset (explanatory variables): [2]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.16

y\_test y\_prediction

0 2.00 1.73

1 1.30 1.56

2 1.50 1.52

3 0.10 0.26

4 1.10 0.89

5 2.20 2.06

6 1.20 1.60

7 1.10 1.27

8 1.40 1.98

9 0.20 0.30

10 0.20 0.22

11 1.40 1.56

12 0.20 0.22

13 0.40 0.26

14 0.20 0.18

15 1.50 1.52

16 2.10 1.98

17 0.40 0.26

18 1.70 1.52

19 1.00 1.31

20 0.20 0.26

21 0.40 0.43

22 0.30 0.22

23 1.20 1.48

R-squared: 0.9008

Sheet 2

Enter the sheet number (range 1 - 4) of the dataset to be analyzed: 2

Length(rows) of dataset: 50

Columns used in training dataset (explanatory variables): [2]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.50

y\_test y\_prediction

0 0.40 0.27

1 0.10 0.25

2 0.20 0.22

3 0.20 0.24

4 0.20 0.27

5 0.20 0.27

6 0.10 0.25

7 0.10 0.25

8 0.20 0.21

9 0.20 0.27

10 0.20 0.27

11 0.20 0.24

12 0.60 0.27

13 0.10 0.19

14 0.40 0.25

15 0.20 0.29

16 0.20 0.24

17 0.40 0.25

18 0.20 0.25

19 0.30 0.24

20 0.40 0.22

21 0.40 0.29

22 0.20 0.25

23 0.10 0.24

24 0.20 0.24

R-squared: 0.0658

Enter the sheet number (range 1 - 4) of the dataset to be analyzed: 2

Length(rows) of dataset: 50

Columns used in training dataset (explanatory variables): [1]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.60

y\_test y\_prediction

0 0.20 0.20

1 0.30 0.26

2 0.30 0.24

3 0.20 0.25

4 0.20 0.22

5 0.20 0.24

6 0.10 0.22

7 0.10 0.22

8 0.20 0.22

9 0.20 0.22

10 0.20 0.29

11 0.20 0.21

12 0.40 0.27

13 0.40 0.27

14 0.20 0.24

15 0.30 0.24

16 0.20 0.23

17 0.20 0.24

18 0.20 0.22

19 0.40 0.26

20 0.10 0.21

21 0.40 0.24

22 0.20 0.22

23 0.30 0.16

24 0.50 0.23

25 0.20 0.22

26 0.20 0.25

27 0.20 0.21

28 0.30 0.24

29 0.20 0.24

R-squared: 0.1035

Enter the sheet number (range 1 - 4) of the dataset to be analyzed: 2

Length(rows) of dataset: 50

Columns used in training dataset (explanatory variables): [2]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.40

y\_test y\_prediction

0 0.20 0.28

1 0.10 0.25

2 0.30 0.21

3 0.20 0.21

4 0.20 0.23

5 0.40 0.25

6 0.20 0.27

7 0.30 0.23

8 0.30 0.23

9 0.10 0.23

10 0.20 0.23

11 0.30 0.21

12 0.20 0.19

13 0.20 0.19

14 0.30 0.25

15 0.20 0.27

16 0.20 0.27

17 0.50 0.28

18 0.40 0.28

19 0.20 0.25

R-squared: 0.0777

SHEET 4

Enter the sheet number (range 1 - 4) of the dataset to be analyzed: 4

Length(rows) of dataset: 50

Columns used in training dataset (explanatory variables): [0, 1, 2]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.20

y\_test y\_prediction

0 2.00 2.04

1 1.80 1.81

2 1.90 1.86

3 2.20 2.06

4 2.30 1.96

5 2.30 1.94

6 2.50 2.25

7 1.80 2.07

8 2.20 1.95

9 2.40 2.05

R-squared: -0.0409

ter the sheet number (range 1 - 4) of the dataset to be analyzed: 4

Length(rows) of dataset: 50

Columns used in training dataset (explanatory variables): [1, 2]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.50

y\_test y\_prediction

0 1.80 2.08

1 2.30 2.22

2 2.10 2.12

3 2.00 2.62

4 1.80 2.13

5 1.50 1.96

6 2.30 2.19

7 2.00 1.75

8 2.30 2.22

9 1.70 1.70

10 1.90 1.87

11 2.50 2.46

12 2.10 1.97

13 2.40 2.29

14 1.60 2.13

15 1.80 2.02

16 2.40 2.15

17 2.30 2.16

18 1.80 2.06

19 2.20 2.61

20 2.00 2.08

21 2.20 2.08

22 1.90 2.03

23 2.00 2.20

24 1.80 2.05

R-squared: 0.0276

Enter the sheet number (range 1 - 4) of the dataset to be analyzed: 4

Length(rows) of dataset: 50

Columns used in training dataset (explanatory variables): [0]

Target estimation (response variable) data in column: 3 - The 'Petal width'

Test size used in the dataset: 0.30

y\_test y\_prediction

0 2.50 2.10

1 2.30 2.12

2 2.30 2.08

3 1.80 1.95

4 2.50 2.20

5 1.50 1.98

6 2.40 2.12

7 2.10 2.11

8 1.80 2.05

9 1.80 1.98

10 1.40 1.92

11 2.20 2.03

12 2.00 2.02

13 1.70 1.86

14 2.10 2.04

R-squared: 0.3603