

```
In [85]: ##### Non Scaled Data #####
import functions as fns
from sklearn.datasets import load_iris
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
iris = load_iris()
```

```
In [86]: # scale_features_using_standard_scaler
data_not_scaled = iris.data
```

```
In [87]: # Display DataFrame
df_data = fns.create_dataframe(data_not_scaled, iris.feature_names)
df_data.head(10)
```

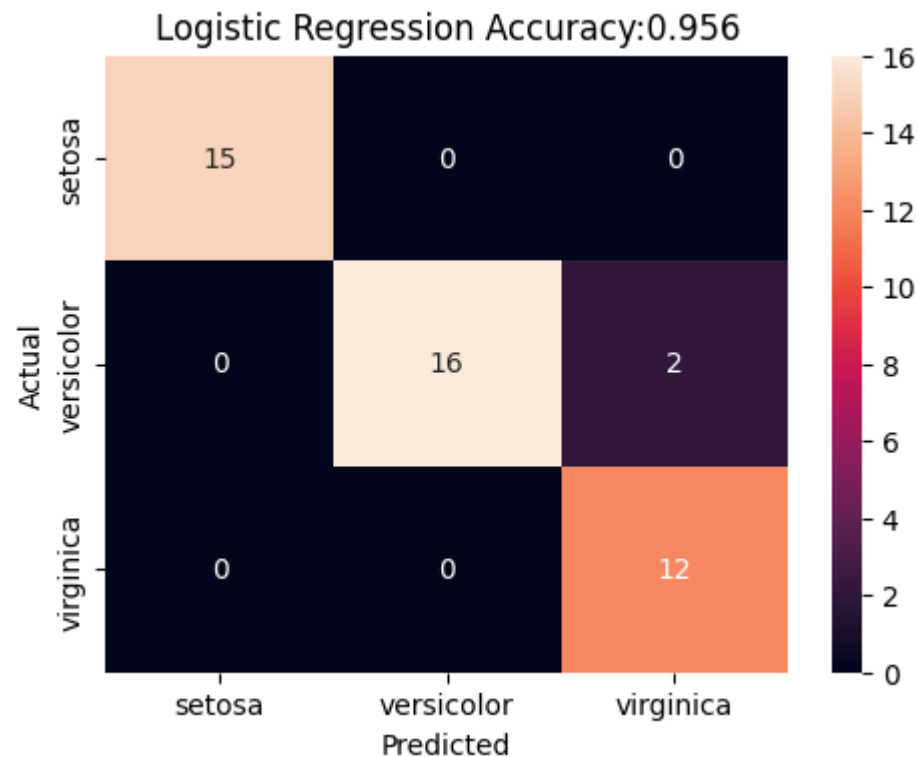
```
Out[87]:
```

	sepal length (cm)	sepal width (cm)	petal length (cm)	petal width (cm)
0	5.1	3.5	1.4	0.2
1	4.9	3.0	1.4	0.2
2	4.7	3.2	1.3	0.2
3	4.6	3.1	1.5	0.2
4	5.0	3.6	1.4	0.2
5	5.4	3.9	1.7	0.4
6	4.6	3.4	1.4	0.3
7	5.0	3.4	1.5	0.2
8	4.4	2.9	1.4	0.2
9	4.9	3.1	1.5	0.1

```
In [88]: # Split the data into training and testing sets
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(data_not_scaled, iris.target, test_size=0.3)
```

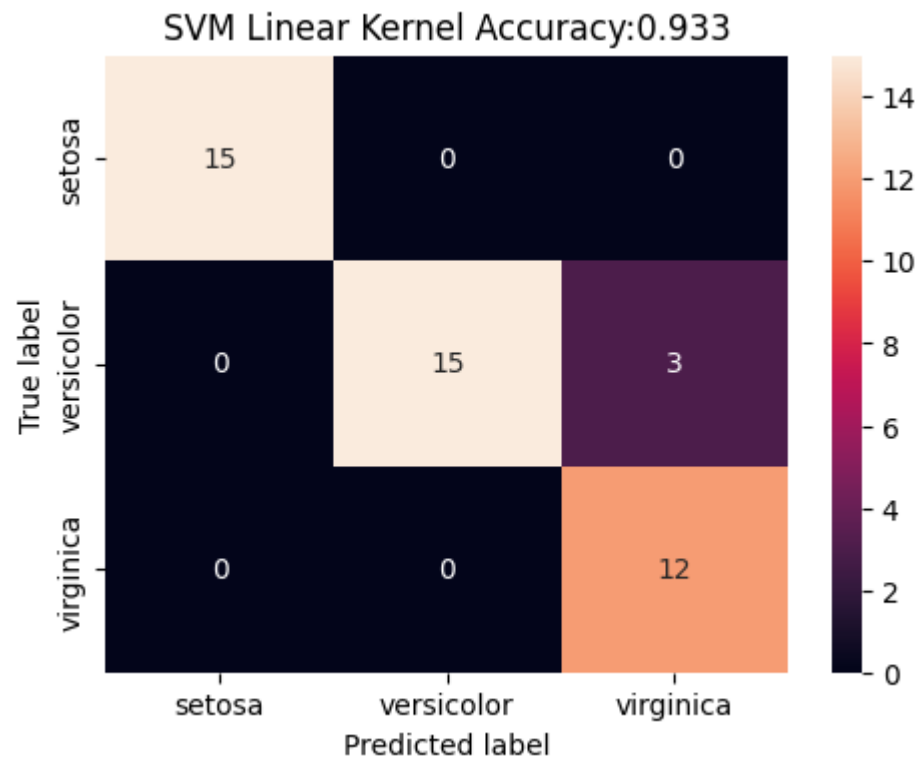
```
In [89]: # train_model_using_logistic_regression
cm, accuracyLR, precision, recall, f1 = fns.train_model_using_logistic_regression(X_train, X_test, y_train, y_test,
```

accuracy_LR : 0.956
precision_LR : 0.956
recall_LR : 0.956
f1-score_LR : 0.956



```
In [90]: # train_model_using_support_vector_classification
cm, accuracySVC, precision, recall, f1 = fns.train_model_using_support_vector_classification(X_train, X_test, y_tra
```

accuracy_SVC : 0.933
precision_SVC : 0.933
recall_SVC : 0.933
f1-score_SVC : 0.933



```
In [91]: # compare_logistic_regression_vs_vector_classification_accuracy
fns.compare_logistic_regression_vs_vector_classification_accuracy(accuracyLR, accuracySVC);
```

	Model	Accuracy_score
0	Logistic Regression	0.955556
1	Support Vector Classification	0.933333

In []: