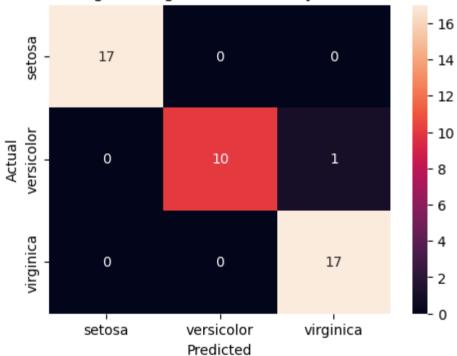
	sepat tength (cm)	Sepat width (Cili)	petat tengtii (ciii)	petat width (cili)
0	-0.900681	1.019004	-1.340227	-1.315444
1	-1.143017	-0.131979	-1.340227	-1.315444
2	-1.385353	0.328414	-1.397064	-1.315444
3	-1.506521	0.098217	-1.283389	-1.315444
4	-1.021849	1.249201	-1.340227	-1.315444
5	-0.537178	1.939791	-1.169714	-1.052180
6	-1.506521	0.788808	-1.340227	-1.183812
7	-1.021849	0.788808	-1.283389	-1.315444
8	-1.748856	-0.362176	-1.340227	-1.315444
9	-1.143017	0.098217	-1.283389	-1.447076

```
In [47]: # 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_scaled, iris.target, test_size=0.3)
```

In [48]: # 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 : 0.978
precision\_LR : 0.978
recall\_LR : 0.978
f1-score\_LR : 0.978

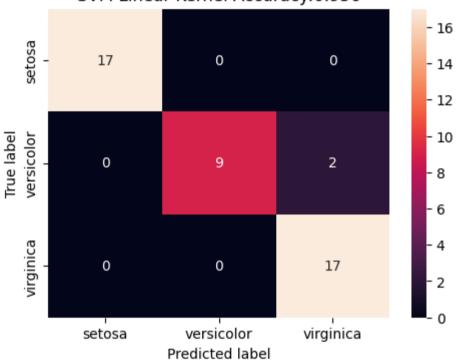
## Logistic Regression Accuracy: 0.978



In [49]: # 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 : 0.956
precision\_SVC : 0.956
recall\_SVC : 0.956
f1-score\_SVC : 0.956

## SVM Linear Kernel Accuracy:0.956



```
In [50]: # compare_logistic_regression_vs_vector_classification_accuracy
fns.compare_logistic_regression_vs_vector_classification_accuracy(accuracyLR, accuracySVC);
```

Model Accuracy\_score
Logistic Regression 0.977778
Support Vector Classification 0.955556

```
In [ ]:
```