Logistic Regression

```
# Check accuracy of model
print(classification_report(y_test,y_pred))
```

	precision	recall	f1-score	support
NO	1.00	0.31	0.47	13
YES	0.89	1.00	0.94	70
accuracy			0.89	83
macro avg	0.94	0.65	0.71	83
weighted avg	0.90	0.89	0.87	83

Random Forest Classifier

```
# Check accuracy of model
print(classification_report(y_test,y_pred_rf))
```

	precision	recall	f1-score	support
NO	1.00	0.31	0.47	13
YES	0.89	1.00	0.94	70
accuracy			0.89	83
macro avg	0.94	0.65	0.71	83
weighted avg	0.90	0.89	0.87	83

Support Vector Machine model

```
# Check accuracy of model
print(classification_report(y_test,y_pred_svm))
```

	precision	recall	f1-score	support
NO	1.00	0.62	0.76	13
YES	0.93	1.00	0.97	70
			0.04	02
accuracy	0.97	0.81	0.94 0.86	83 83
macro avg weighted avg	0.94	0.81	0.80	83

Model Comparison Report

Logistic regression model and Random Classifier have have same accuracy of 89%. Whereas Support Vector Machine model has accuracy of 94%. Therefore, Support Vector Machine model is best model for production.