```
C:\ProgramData\Anaconda3\python.exe
D:/MashroomClassification_ML-Project/MashroomClassifier.py
GaussianNB(priors=None)
-----------------------------------------------------------------
Naive Byes accuracy score = 91.0992616899%
Naive Byes precision score = 87.9089508823%
Naive Byes recall score = 88.6030598701%
Naive Byes f1 score = 88.2471909563%
-----------------------------------------------------------------
SVC(C=1.0, cache_size=1000, class_weight=None, coef0=0.0,
  decision_function_shape=None, degree=3, gamma='auto', kernel='poly',
  max_iter=-1, probability=False, random_state=None, shrinking=True,
  tol=0.001, verbose=False)
-----------------------------------------------------------------
-------------------VALIDATION-------------------------
SVM accuracy score = 97.7832512315%
SVM precision score = 98.0760967369%
SVM recall score = 96.1163406798%
SVM f1 score = 97.0443349754%
-----------------------------------------------------------------
-----------------------------------------------------------------
-------------------TESTING-------------------------
SVM accuracy score = 97.2928630025%
SVM precision score = 97.232777009%
SVM recall score = 95.3298114315%
SVM f1 score = 96.2357003495%
-----------------------------------------------------------------
DecisionTreeClassifier(class_weight='balanced', criterion='gini',
            max_depth=15, max_features=None, max_leaf_nodes=None,
            min_impurity_split=1e-07, min_samples_leaf=1,
            min_samples_split=2, min_weight_fraction_leaf=0.0,
            presort=False, random_state=None, splitter='best')
-----------------------------------------------------------------
Decision tree accuracy score = 96.0623461854%
Decision tree precision score = 97.5051975052%
Decision tree recall score = 92.131147541%
Decision tree f1 score = 94.4502196693%
-----------------------------------------------------------------
MLPClassifier(activation='relu', alpha=0.0001, batch_size='auto', beta_1=0.9,
       beta_2=0.999, early_stopping=False, epsilon=1e-08,
       hidden_layer_sizes=(100, 100), learning_rate='constant',
       learning_rate_init=0.001, max_iter=200, momentum=0.9,
       nesterovs_momentum=True, power_t=0.5, random_state=1, shuffle=True,
       solver='adam', tol=0.0001, validation_fraction=0.1, verbose=False,
       warm_start=False)
-----------------------------------------------------------------
-------------------VALIDATION-------------------------
Neural network accuracy score = 96.7159277504%
Neural network precision score = 96.5360677292%
Neural network recall score = 94.6731408017%
Neural network f1 score = 95.5573387803%
-----------------------------------------------------------------
-----------------------------------------------------------------
-------------------TESTING-------------------------
Neural network accuracy score = 98.0311730927%
Neural network precision score = 97.5668896321%
Neural network recall score = 97.1439174485%
Neural network f1 score = 97.353049747%
-----------------------------------------------------------------

Process finished with exit code 0
```