MODEL PERFORMANCE TESTING

Testing metrics

Date	18 November 2022
Team ID	PNT2022TMID54045
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board
Maximum Marks	4 Marks

The confusion matrix below shows the performance metrics of the machine learning model.

In [ ]:

```
from sklearn.tree import DecisionTreeClassifier

dtclas=DecisionTreeClassifier()
modeldt=dtclas.fit(X_train,y_train)
predictiondt=modeldt.predict(X_test)
cmdt= confusion_matrix(y_test,predictiondt)
sns.heatmap(cmdt, annot=True,cmap='winter')
print(classification_report(y_test, predictiondt))
```

```
              precision    recall  f1-score   support

      Absence       0.78      0.78      0.78        40
     Presence       0.68      0.68      0.68        28

     accuracy                           0.74        68
    macro avg       0.73      0.73      0.73        68
 weighted avg       0.74      0.74      0.74        68
```