

**Project Development Phase**  
**Model Performance Test**

|              |  |
|--------------|--|
| Date         | 19 November 2022   |
| Team ID      | PNT2022TMID35585   |
| Project name | Predicting The Energy Output of Wind Turbine Based on Weather Conditions |

| S. No | Parameter | Values                           | Screenshot  |
|-------|-----------|----------------------------------|---|
| 1.    | Metrics   | Regression Model: RMSE, R2 score | <pre>In [24]: lasso = Lasso(alpha = 0.01) model = lasso.fit(X_train, y_train) pred_train_lasso= lasso.predict(X_train)  print("Training RMSE and R2 score:") print(np.sqrt(mean_squared_error(y_train,pred_train_lasso))) print(r2_score(y_train, pred_train_lasso))  pred_test_lasso= lasso.predict(X_test) print("Testing RMSE and R2 score:") print(np.sqrt(mean_squared_error(y_test,pred_test_lasso))) print(r2_score(y_test, pred_test_lasso))  Training RMSE and R2 score: 533.882754117229 0.8349081611466808 Testing RMSE and R2 score: 539.8257889459195 0.8292153379339346</pre> |