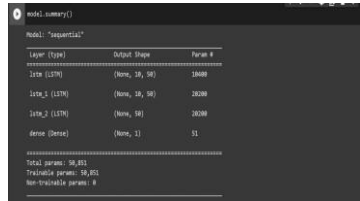
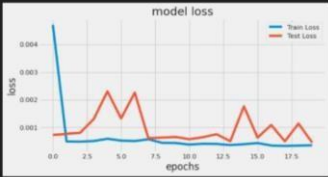


## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID13501
Project Name	Project – Crude Oil Price Prediction
Maximum Marks	10 Marks

### Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	-	 <pre> model.summary()  Model: "sequential" Layer (type)                Output Shape              Param # ----- layer_1 (LSTM)              (None, 10, 50)           10000 layer_2 (LSTM)              (None, 10, 50)           10000 layer_3 (LSTM)              (None, 50)               10000 dense (dense)               (None, 1)                51 ----- Total params: 30,051 Trainable params: 10,001 Non-trainable params: 0 </pre>
2.	Accuracy	Training Accuracy - 2.03291747578067 Validation Accuracy - 2.9096238300262343	<pre> Train Mean Absolute Error: 1.5084689769241186 Train Root Mean Squared Error: 2.83291747578067 Test Mean Absolute Error: 2.1357178599548074 Test Root Mean Squared Error: 2.9096238300262343 </pre>  <p>The graph titled 'model loss' plots loss against epochs. The x-axis represents epochs from 0.0 to 17.5, and the y-axis represents loss from 0.000 to 0.004. The training loss (blue line) starts at approximately 0.004 and drops sharply to near zero by epoch 2.5, remaining stable thereafter. The test loss (red line) starts near zero, fluctuates between 0.0005 and 0.0015 until epoch 7.5, and then continues to fluctuate between 0.0005 and 0.001 throughout the remaining epochs.</p>