```
1 C:\Users\DELL\AppData\Local\Programs\Python\Python310 \python.exe "G:\My Drive\BSc (Hons)\Individual Project\Currency Exchange Rate Prediction\main.py"
2 2024-03-13 11:39:20.123213: I tensorflow/core/util/
```

- port.cc:113] oneDNN custom operations are on. You may see slightly different numerical results due to floating-point round-off errors from different computation orders. To turn them off, set the environment variable `TF_ENABLE_ONEDNN_OPTS=0`.
- 3 WARNING:tensorflow:From C:\Users\DELL\AppData\Local\
 Programs\Python\Python310\lib\site-packages\keras\src
 \losses.py:2976: The name tf.losses.
 sparse_softmax_cross_entropy is deprecated. Please
 use tf.compat.v1.losses.sparse_softmax_cross_entropy
 instead.

4

- 5 Shape of loaded data: (828, 1)
- 6 Exchange Rate 0
- 7 dtype: int64
- 8 Length of X: 729
- 9 Length of y: 729
- 10 Shape of X before reshaping: (729, 100)
- 11 Shape of y: (729,)
- 12 WARNING:tensorflow:From C:\Users\DELL\AppData\Local\
 Programs\Python\Python310\lib\site-packages\keras\src\backend.py:873: The name tf.get_default_graph is deprecated. Please use tf.compat.v1.get_default_graph instead.

13

- 14 2024-03-13 11:39:24.612695: I tensorflow/core/platform/cpu_feature_guard.cc:182] This TensorFlow binary is optimized to use available CPU instructions in performance-critical operations.
- 15 To enable the following instructions: SSE SSE2 SSE3 SSE4.1 SSE4.2 AVX2 AVX512F AVX512_VNNI FMA, in other operations, rebuild TensorFlow with the appropriate compiler flags.
- 16 WARNING:tensorflow:From C:\Users\DELL\AppData\Local\
 Programs\Python\Python310\lib\site-packages\keras\src
 \optimizers__init__.py:309: The name tf.train.
 Optimizer is deprecated. Please use tf.compat.v1.

```
16 train.Optimizer instead.
17
18 Epoch 1/100
19 WARNING:tensorflow:From C:\Users\DELL\AppData\Local\
 Programs\Python\Python310\lib\site-packages\keras\src
 \utils\tf_utils.py:492: The name tf.ragged.
 RaggedTensorValue is deprecated. Please use tf.compat
 .v1.ragged.RaggedTensorValue instead.
20
21 16/16 [============== ] - 3s 41ms/step
  - loss: 0.1225
22 Epoch 2/100
- loss: 0.0874
24 Epoch 3/100
- loss: 0.0846
26 Epoch 4/100
- loss: 0.0825
28 Epoch 5/100
- loss: 0.0830
30 Epoch 6/100
- loss: 0.0807
32 Epoch 7/100
33 16/16 [============== ] - 1s 42ms/step
  - loss: 0.0788
34 Epoch 8/100
- loss: 0.0760
36 Epoch 9/100
37 16/16 [============= ] - 1s 44ms/step
  - loss: 0.0713
38 Epoch 10/100
- loss: 0.0657
40 Epoch 11/100
- loss: 0.0549
```

```
42 Epoch 12/100
- loss: 0.0328
44 Epoch 13/100
- loss: 0.0104
46 Epoch 14/100
- loss: 0.0016
48 Epoch 15/100
49 16/16 [============== ] - 1s 52ms/step
  - loss: 3.9548e-04
50 Epoch 16/100
- loss: 2.5816e-04
52 Epoch 17/100
- loss: 1.4170e-04
54 Epoch 18/100
55 16/16 [============= ] - 1s 49ms/step
  - loss: 7.6260e-05
56 Epoch 19/100
- loss: 5.1702e-05
58 Epoch 20/100
59 16/16 [============= ] - 1s 48ms/step
  - loss: 4.4502e-05
60 Epoch 21/100
- loss: 4.2181e-05
62 Epoch 22/100
63 16/16 [============== ] - 1s 52ms/step
  - loss: 3.4056e-05
64 Epoch 23/100
- loss: 3.4901e-05
66 Epoch 24/100
67 16/16 [============ ] - 1s 51ms/step
  - loss: 3.4575e-05
68 Epoch 25/100
```

```
- loss: 3.5072e-05
70 Epoch 26/100
71 16/16 [============ ] - 1s 49ms/
  step - loss: 3.5118e-05
72 Epoch 27/100
73 16/16 [============= ] - 1s 49ms/
  step - loss: 2.8793e-05
74 Epoch 28/100
75 16/16 [============= ] - 1s 50ms/
  step - loss: 2.6652e-05
76 Epoch 29/100
77 16/16 [============== ] - 1s 48ms/
  step - loss: 3.7952e-05
78 Epoch 30/100
79 16/16 [=============== ] - 1s 50ms/
  step - loss: 3.9001e-05
80 Epoch 31/100
81 16/16 [============== ] - 1s 48ms/
  step - loss: 3.0902e-05
82 Epoch 32/100
83 16/16 [============ ] - 1s 49ms/
  step - loss: 3.6447e-05
84 Epoch 33/100
step - loss: 1.8210e-05
86 Epoch 34/100
87 16/16 [============ ] - 1s 48ms/
  step - loss: 2.0317e-05
88 Epoch 35/100
89 16/16 [=========== ] - 1s 47ms/
  step - loss: 2.1553e-05
90 Epoch 36/100
91 16/16 [============= ] - 1s 49ms/
  step - loss: 2.6890e-05
92 Epoch 37/100
93 16/16 [============= ] - 1s 48ms/
  step - loss: 2.3632e-05
94 Epoch 38/100
95 16/16 [============ ] - 1s 51ms/
  step - loss: 2.6584e-05
96 Epoch 39/100
```

```
97 16/16 [============= ] - 1s 50ms/
 step - loss: 3.4157e-05
98 Epoch 40/100
99 16/16 [============ ] - 1s 49ms/
 step - loss: 3.3731e-05
100 Epoch 41/100
step - loss: 3.3581e-05
102 Epoch 42/100
step - loss: 2.2729e-05
104 Epoch 43/100
step - loss: 1.6015e-05
106 Epoch 44/100
step - loss: 1.4755e-05
108 Epoch 45/100
step - loss: 1.8539e-05
110 Epoch 46/100
step - loss: 2.5153e-05
112 Epoch 47/100
step - loss: 1.5972e-05
114 Epoch 48/100
step - loss: 1.1733e-05
116 Epoch 49/100
step - loss: 1.5713e-05
118 Epoch 50/100
step - loss: 2.2520e-05
120 Epoch 51/100
step - loss: 1.5009e-05
122 Epoch 52/100
step - loss: 1.6072e-05
```

```
124 Epoch 53/100
step - loss: 3.1292e-05
126 Epoch 54/100
step - loss: 1.2019e-05
128 Epoch 55/100
step - loss: 2.0572e-05
130 Epoch 56/100
step - loss: 1.1346e-05
132 Epoch 57/100
step - loss: 1.3285e-05
134 Epoch 58/100
step - loss: 1.5979e-05
136 Epoch 59/100
step - loss: 2.0773e-05
138 Epoch 60/100
step - loss: 1.8604e-05
140 Epoch 61/100
step - loss: 1.1443e-05
142 Epoch 62/100
step - loss: 1.2036e-05
144 Epoch 63/100
step - loss: 2.4268e-05
146 Epoch 64/100
step - loss: 1.5694e-05
148 Epoch 65/100
step - loss: 8.3715e-06
150 Epoch 66/100
```

```
151 step - loss: 8.3542e-06
152 Epoch 67/100
step - loss: 2.9309e-05
154 Epoch 68/100
step - loss: 1.0293e-05
156 Epoch 69/100
step - loss: 7.0325e-06
158 Epoch 70/100
step - loss: 2.7398e-05
160 Epoch 71/100
step - loss: 1.4640e-05
162 Epoch 72/100
step - loss: 2.1264e-05
164 Epoch 73/100
step - loss: 1.3016e-05
166 Epoch 74/100
step - loss: 3.6778e-05
168 Epoch 75/100
step - loss: 2.8506e-05
170 Epoch 76/100
step - loss: 1.4069e-05
172 Epoch 77/100
step - loss: 9.5242e-06
174 Epoch 78/100
step - loss: 9.4347e-06
176 Epoch 79/100
step - loss: 8.4475e-06
178 Epoch 80/100
```

```
step - loss: 2.1659e-05
180 Epoch 81/100
step - loss: 2.2558e-05
182 Epoch 82/100
step - loss: 1.1762e-05
184 Epoch 83/100
step - loss: 8.8574e-06
186 Epoch 84/100
step - loss: 1.1503e-05
188 Epoch 85/100
step - loss: 4.1039e-05
190 Epoch 86/100
step - loss: 1.3476e-05
192 Epoch 87/100
step - loss: 1.0673e-05
194 Epoch 88/100
step - loss: 9.7922e-06
196 Epoch 89/100
step - loss: 1.5548e-05
198 Epoch 90/100
step - loss: 2.3056e-05
200 Epoch 91/100
step - loss: 2.7356e-05
202 Epoch 92/100
step - loss: 2.0828e-05
204 Epoch 93/100
step - loss: 2.3693e-05
```

```
206 Epoch 94/100
step - loss: 2.6883e-05
208 Epoch 95/100
step - loss: 2.9613e-05
210 Epoch 96/100
step - loss: 7.3170e-06
212 Epoch 97/100
step - loss: 1.0788e-05
214 Epoch 98/100
step - loss: 9.6400e-06
216 Epoch 99/100
step - loss: 2.0050e-05
218 Epoch 100/100
step - loss: 2.4791e-05
220 8/8 [============== ] - 1s 12ms/step
221 Root Mean Squared Error: 0.42954259451252946
222 Shape of predictions: (241, 1)
223
224 Process finished with exit code 0
225
```