IMPORTING LIBRARIES

In [1]:

```
from sklearn.preprocessing import StandardScaler
from tensorflow.keras.models import Dense
from tensorflow.keras.layers import Dense
from tensorflow.keras.optimizers import Adam
import math
import matplotlib.pyplot as plt
import numpy as np
import random
from collections import deque
import pandas as pd
```

LOADING DATA

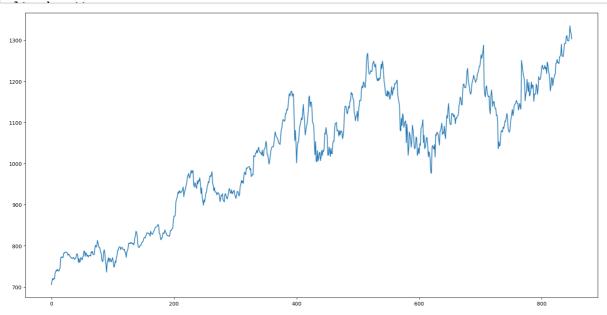
```
In [2]:
```

```
data = pd.read_csv('GOOG (4).csv')
data=np.array(data['Close'])
data=data[:850]
```

850

In [3]:

```
plt.figure(figsize=(20,10))
plt.plot(range(len(data)),data)
```



AGENT CLASS ¶

```
In [4]:
```

```
class Agent :
 def __init__(self,Money,MAXT, state_size,model_name=""):
        self.state_size = state_size+2 #(days + money + no. of transactions)
        self.action_size = 3 # buy sell hold
        self.memory = deque(maxlen=1000)
        self.inventory = 0. #no. of stock in possesion
        self.initial money=Money
        self.money=float(Money) #money agent have after every transaction
        self.money before=float(Money)
        self.transactions=0
        self.max t=MAXT
        self.is eval = False #true when model is used for prediction
        self.gamma = 0.95
        self.epsilon = 1.0
        self.epsilon_min = 0.01
        self.epsilon_decay = 0.995
        self.model = self._model() if model_name=="" else load_model(model_name)
  def model(self):
        model = Sequential()
        model.add(Dense(units=16, input_dim=self.state_size, activation="relu"))
        model.add(Dense(units=8, activation="relu"))
        model.add(Dense(self.action_size, activation="linear"))
        model.compile(loss="mse", optimizer=Adam(learning_rate=0.001))
        return model
 def act(self, state):
        if not self.is eval and random.random()<= self.epsilon:</pre>
            s = " random " #just to check whether decisions are taken by model or ra
            return random.randrange(self.action_size) , s
        input = np.reshape(state,(1,-1))
        options = self.model.predict(input)
        s = " not random "
        return np.argmax(options[0]) , s
  def expReplay(self, batch_size):
        mini_batch = []
        1 = len(self.memory)
        for i in range(l - batch size+1, l):
            mini_batch.append(self.memory[i])
        for state, action, reward, next_state, done in mini_batch:
            target = reward
            input = np.reshape(state,(1,-1))
            if not done:
                next input=np.reshape(state,(1,-1))
                target = reward + self.gamma * np.amax(self.model.predict(next_input)
            target f = self.model.predict(input)
            target_f[0][action] = target
            self.model.fit(input, target_f, epochs=1, verbose=0)
        if self.epsilon > self.epsilon_min:
            self.epsilon *= self.epsilon decay
```

FUNCTIONS - BUY, SELL, GET_STATE

```
In [5]:
```

```
def formatPrice(n):
    return("-Rs." if n<0 else "Rs.")+"{0:.2f}".format(abs(n))</pre>
def sigmoid(x):
    return 1/(1+math.exp(-x))
def buy(agent,price):
    if(agent.transactions>=agent.max_t or agent.money<=0):</pre>
        return -1
    x=agent.money/(agent.max_t-agent.transactions)
    agent.money=agent.money-x
    stock=x/price
    agent.transactions+=1
    agent.inventory=stock+agent.inventory
    return 0
def sell(agent,price):
    if(agent.inventory==0) :
        return -1
    agent.money+=price*agent.inventory
    value =max(agent.initial_money,agent.money_before)
    reward=max(agent.money-value,0)
    agent.money_before=agent.money
    agent.inventory=0
    agent.transactions=0
    return reward
def get_state(agent ,data):
    value = np.reshape(data,(-1,1))
    ss=StandardScaler()
    value=ss.fit_transform(value)
    value=value[:,0]
    for i in range(len(value)):
        value[i]=sigmoid(value[i])
    value=np.append(value,[agent.transactions/agent.max t,agent.money/(agent.money k
    return np.array(value)
```

In [6]:

```
window_size = 8
episode_count = 6
Money=10000.0;
MAXT=5;
```

```
In [7]:
```

```
In [ ]:
```

TRAINING

In [8]:

```
agent.is eval=False
episode count = 12
l = len(data)
agent.max t=5
batch_size = 32
for e in range(episode_count):
    print("Episode " + str(e) + "/" + str(episode_count))
    state = get state(agent,data[0:window size])
    agent.money=Money
    code ={0:'b',1:'r',2:'g'}
    decisions=[]
    actions=[0,0,0]
    agent.inventory=0.
    agent.transactions=0.
    for t in range(window_size,l-1):
        action , s = agent.act(state)
       decisions.append(code[action])
       reward = 0
        if action==0:
           actions[0]=actions[0]+1
           actions[1]=0
           actions[2]=0
           reward = -1*(actions[0])
        if action == 1: # buy
           reward=buy(agent,float(data[t-1]))
           actions[1]=actions[1]+1
           actions[0]=0
           actions[2]=0
           reward=reward*actions[1]
        elif action == 2 :
           reward=sell(agent,data[t-1])
           actions[2]=actions[2]+1
           actions[1]=0
           actions[0]=0
            if reward <0:</pre>
                 reward = -1*(2**(actions[2]))
       next_state = get_state(agent,data[t-window_size+1:t+1])
       done = True if t == 1 - 2 else False
        agent.memory.append((state, action, reward, next_state, done))
        state = next state
        if done:
           agent.money+=agent.inventory*float(data[t])
           print("----")
           print("Total Profit: " + formatPrice(agent.money-Money))
           print("----")
        if len(agent.memory) > batch size:
           agent.expReplay(batch_size)
       print(str(t)+ "
                         "+str(agent.money)+" " +str(action)+s)
    plt.figure(figsize=(20,30))
    for t in range(window_size, l-1):
       plt.scatter(t,data[t-1],color=decisions[t-window_size])
    plt.plot(range(len(data)),data)
    plt.show()
    agent.memory.clear()
agent.model.save('lastplease')
```

```
1/1 [======= ] - 0s 13ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 14ms/step
1/1 [=======] - 0s 13ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [======] - 0s 13ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [=======] - 0s 10ms/step
1/1 [=======] - 0s 13ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 13ms/step
```

TESTING

In [9]:

In [15]:

```
for stock in stocks:
   test = pd.read_csv(stock+'.csv')
   l = len(test)
   agent.money=Money
   agent.inventory=0.
   agent.is_eval=True
   agent.transactions=0.
   test=np.array(test['Close'])
   state=get_state(agent,test[0:window_size])
   decisions={0:[],1:[],2:[]}
   for t in range(window size, l-1):
           action, = agent.act(state)
           next_state = get_state(agent,test[t-window_size+1:t+1])
           decisions[action].append([t-1,test[t-1]])
           if action == 1: # buy
               buy(agent,float(test[t-1]))
           elif action == 2 :
               sell(agent, test[t-1])
           done = True if t == 1 - 2 else False
           state = next state
           if done:
               agent.money+=agent.inventory*float(test[t])
               print("----")
               print("Total Profit: " + formatPrice(agent.money-Money))
               print("----")
   h = np.array(decisions[0])
   b = np.array(decisions[1])
   s = np.array(decisions[2])
   plt.figure(figsize=(20,10))
   plt.title(stock)
   Buy=plt.scatter(b[:,0],b[:,1],color='r')
   Hold=plt.scatter(h[:,0],h[:,1],color='b')
   Sell=plt.scatter(s[:,0],s[:,1],color='g')
   plt.plot(range(len(test)), test, color='lightblue')
   plt.legend(handles = [Buy, Hold, Sell],
              labels = ['Buy'+'('+str(len(b))+')', 'Hold'+'('+str(len(h))+')', 'Se
   plt.show()
```

1/1	[========]	-	0s	15ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	15ms/step
	-			
1/1	[======]	-	0s	14ms/step
1/1	[========]	-	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[===========		0s	11ms/step
		_		_
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
	-			_
1/1	[======]	_	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[=======]	_	0s	13ms/step
1/1	[========]	_	0s	20ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	12ms/step
	-	_		_
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	13ms/step
1/1	[=======]	_	0s	15ms/step
1/1	[=======]	_	0s	14ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[==========]		0s	12ms/step
-	-	_		
1/1	[======]		0s	13ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	14ms/step
1/1	[=========]	_	0s	13ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[==========]		0s	13ms/step
٠.	-	_		_
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]		0s	11ms/step
٠.		_		
1/1	[======]	_	0s	14ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	13ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[===========	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
		_		_
1/1	[======]	_	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]			11ms/step
-, -	.]		٠,5	, 500p

```
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 13ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 13ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 13ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 13ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 13ms/step
1/1 [======= ] - 0s 14ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 13ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 13ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 13ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
```

	1 /1			0 -	10/
1/1	1/1	-		US	10ms/step
1/1	1/1		-	0s	12ms/step
1/1	1/1	[=======]	-	0s	10ms/step
1/1	1/1	[=========]	_	0s	10ms/step
1/1	1/1	[=======]	_	0s	12ms/step
1/1	1/1		_	0s	-
1/1			_	_	_
1/1 [===================================	٠.			_	_
1/1 [===================================	٠.		_	_	_
1/1 [===================================	٠.		-	_	_
1/1			-	0s	_
1/1 [===================================		[======]	-	0s	_
1/1 [===================================			-	0s	_
1/1 [===================================	-	[======]	-	0s	_
1/1 [===================================		[======]	-	0s	_
1/1 [===================================	1/1	[======]	_	0s	12ms/step
1/1 [===================================	1/1	[======]	-	0s	12ms/step
1/1 [===================================	1/1	[=======]	_	0s	11ms/step
1/1 [===================================	1/1	[========]	_	0s	12ms/step
1/1 [===================================	1/1	[=======]	_	0s	13ms/step
1/1 [===================================	1/1	[=======]	_	0s	12ms/step
1/1 [===================================	1/1	[========]	_	0s	_
1/1 [=============] - 0s 12ms/step 1/1 [============] - 0s 11ms/step 1/1 [===============] - 0s 12ms/step 1/1 [==============] - 0s 12ms/step 1/1 [============] - 0s 12ms/step 1/1 [===========] - 0s 12ms/step 1/1 [===========] - 0s 12ms/step 1/1 [===========] - 0s 11ms/step 1/1 [============] - 0s 10ms/step 1/1 [============] - 0s 10ms/step 1/1 [=============] - 0s 10ms/step 1/1 [==============] - 0s 10ms/step 1/1 [================] - 0s 12ms/step 1/1 [=================] - 0s 12ms/step 1/1 [==================] - 0s 10ms/step 1/1 [===================================			_	_	_
1/1 [==============] - 0s 10ms/step 1/1 [=============] - 0s 10ms/step 1/1 [==============] - 0s 11ms/step 1/1 [==============] - 0s 12ms/step 1/1 [============] - 0s 12ms/step 1/1 [===========] - 0s 11ms/step 1/1 [===========] - 0s 11ms/step 1/1 [===========] - 0s 10ms/step 1/1 [============] - 0s 10ms/step 1/1 [============] - 0s 10ms/step 1/1 [==============] - 0s 10ms/step 1/1 [==================] - 0s 10ms/step 1/1 [===================================			_		_
1/1 [===============] - 0s 10ms/step 1/1 [==============] - 0s 11ms/step 1/1 [==================] - 0s 12ms/step 1/1 [===============] - 0s 12ms/step 1/1 [==============] - 0s 11ms/step 1/1 [=============] - 0s 11ms/step 1/1 [=============] - 0s 10ms/step 1/1 [==============] - 0s 10ms/step 1/1 [================] - 0s 10ms/step 1/1 [===================================	٠.			_	_
1/1 [===================================	٠.		_	_	_
1/1 [===================================	٠.		_	_	_
1/1 [===================================			_	_	_
1/1 [===================================			_	_	_
1/1 [===================================			-	0s	_
1/1 [===================================		-	-	0s	_
1/1 [===============] - 0s 10ms/step 1/1 [===============] - 0s 10ms/step 1/1 [===============] - 0s 10ms/step 1/1 [==============] - 0s 11ms/step 1/1 [==============] - 0s 10ms/step 1/1 [==============] - 0s 12ms/step 1/1 [===============] - 0s 12ms/step 1/1 [================] - 0s 10ms/step 1/1 [=================] - 0s 10ms/step 1/1 [===================================	-	[======]	-	0s	_
1/1 [===============] - 0s 10ms/step 1/1 [==============] - 0s 10ms/step 1/1 [===============] - 0s 11ms/step 1/1 [===============] - 0s 10ms/step 1/1 [===============] - 0s 12ms/step 1/1 [===============] - 0s 12ms/step 1/1 [===============] - 0s 10ms/step 1/1 [===============] - 0s 10ms/step 1/1 [================] - 0s 10ms/step 1/1 [==================] - 0s 10ms/step 1/1 [===================================	1/1	[=======]	_	0s	12ms/step
1/1 [===================================	1/1	[=======]	_	0s	10ms/step
1/1 [===================================	1/1	[======]	_	0s	10ms/step
1/1 [===================================	1/1	[=======]	_	0s	10ms/step
1/1 [===================================	1/1	[=======]	_	0s	11ms/step
1/1 [===================================	1/1	[=======]	_	0s	10ms/step
1/1 [===================================	1/1	[========]	_	0s	_
1/1 [===================================	1/1				_
1/1 [=================] - 0s 10ms/step 1/1 [===============] - 0s 10ms/step 1/1 [===============] - 0s 11ms/step 1/1 [===============] - 0s 10ms/step 1/1 [===============] - 0s 10ms/step 1/1 [===============] - 0s 10ms/step 1/1 [==================] - 0s 11ms/step 1/1 [=========================] - 0s 10ms/step 1/1 [===================================		-			
1/1 [===================================		-			-
1/1 [================] - 0s 11ms/step 1/1 [==============] - 0s 10ms/step 1/1 [===============] - 0s 10ms/step 1/1 [==============] - 0s 10ms/step 1/1 [==============] - 0s 12ms/step 1/1 [==============] - 0s 11ms/step 1/1 [===============] - 0s 11ms/step 1/1 [================] - 0s 10ms/step 1/1 [==================] - 0s 10ms/step 1/1 [===================================		•			_
1/1 [===================================					_
1/1 [=================] - 0s 10ms/step 1/1 [==============] - 0s 10ms/step 1/1 [===============] - 0s 12ms/step 1/1 [==============] - 0s 11ms/step 1/1 [==============] - 0s 11ms/step 1/1 [==============] - 0s 10ms/step 1/1 [===============] - 0s 10ms/step 1/1 [================] - 0s 10ms/step 1/1 [=================] - 0s 11ms/step 1/1 [===================================		-			_
1/1 [===================================		•			_
1/1 [=================] - 0s 12ms/step 1/1 [==============] - 0s 11ms/step 1/1 [==============] - 0s 11ms/step 1/1 [==============] - 0s 11ms/step 1/1 [==============] - 0s 10ms/step 1/1 [===============] - 0s 10ms/step 1/1 [================] - 0s 10ms/step 1/1 [==================] - 0s 11ms/step 1/1 [===================================	-				_
1/1 [===================================	•				_
1/1 [===================================		-			_
1/1 [===================================	•				_
1/1 [===================================	•	•		0s	11ms/step
1/1 [===================================	1/1	[======]	-	0s	11ms/step
1/1 [=======] - 0s 10ms/step 1/1 [=======] - 0s 10ms/step 1/1 [======] - 0s 11ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 10ms/step 1/1 [======] - 0s 11ms/step 1/1 [=======] - 0s 12ms/step 1/1 [=======] - 0s 12ms/step 1/1 [=======] - 0s 12ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 10ms/step	1/1	[=======]	_	0s	10ms/step
1/1 [========] - 0s 10ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 10ms/step 1/1 [======] - 0s 11ms/step 1/1 [========] - 0s 12ms/step 1/1 [========] - 0s 12ms/step 1/1 [========] - 0s 11ms/step 1/1 [========] - 0s 11ms/step 1/1 [========] - 0s 10ms/step 1/1 [========] - 0s 10ms/step	1/1	[=======]	_	0s	10ms/step
1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 10ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 12ms/step 1/1 [========] - 0s 12ms/step 1/1 [========] - 0s 11ms/step 1/1 [========] - 0s 11ms/step 1/1 [=========] - 0s 10ms/step	1/1	[========]	_	0s	10ms/step
1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 10ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 12ms/step 1/1 [========] - 0s 12ms/step 1/1 [========] - 0s 11ms/step 1/1 [=========] - 0s 11ms/step 1/1 [=========] - 0s 10ms/step	1/1	[=======]	_	0s	_
1/1 [=======] - 0s 10ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 12ms/step 1/1 [=======] - 0s 12ms/step 1/1 [=======] - 0s 12ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 10ms/step 1/1 [=======] - 0s 10ms/step		-			_
1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 12ms/step 1/1 [=======] - 0s 12ms/step 1/1 [=======] - 0s 12ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 10ms/step					_
1/1 [=======] - 0s 12ms/step 1/1 [=======] - 0s 12ms/step 1/1 [======] - 0s 12ms/step 1/1 [=======] - 0s 11ms/step 1/1 [======] - 0s 10ms/step		-			_
1/1 [=======] - 0s 12ms/step 1/1 [=======] - 0s 11ms/step 1/1 [=======] - 0s 10ms/step		-			_
1/1 [======] - 0s 11ms/step 1/1 [======] - 0s 10ms/step					_
1/1 [=======] - 0s 10ms/step					-
		-			-
1/1 [-			_
	т/ Т	[]	_	UB	ııma/aceb

```
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 13ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [======= ] - 0s 14ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 14ms/step
1/1 [======] - 0s 13ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 11ms/step
```

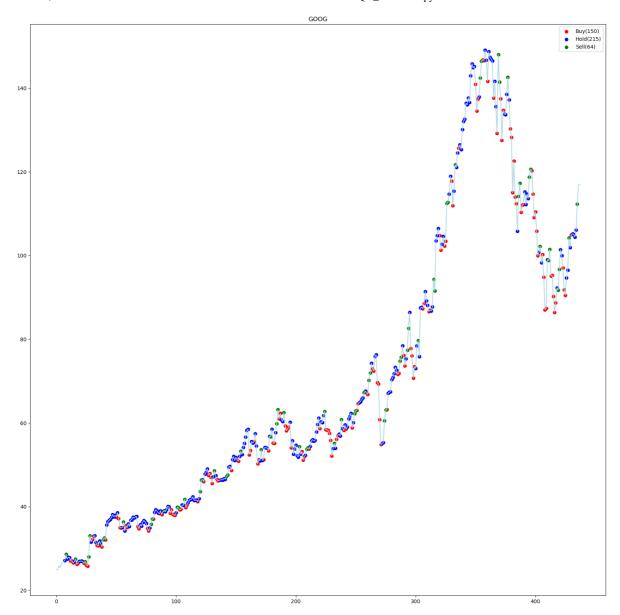
```
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 32ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 14ms/step
1/1 [======] - 0s 12ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 13ms/step
1/1 [======= ] - 0s 15ms/step
1/1 [======] - 0s 14ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 11ms/step
```

1/1 [======] - 0s	
1/1 [======] - 0s	s 11ms/step
1/1 [======] - 0s	
1/1 [======] - 0s	
1/1 [======] - 0s	s 11ms/step
1/1 [======] - 0s	3 13ms/step
1/1 [======] - 0s	
1/1 [======] - 0s	
1/1 [=====] - 0s	10ms/step

1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	14ms/step
1/1	[======]	-	0s	13ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]		0s	12ms/step
•	-	_	_	_
1/1	[=======]	_	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	-	_	_	12ms/step
•	[=======]	_	0s	_
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	14ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]		0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]			12ms/step
1/1	[========]			10ms/step
1/1	[=========]			10ms/step
1/1	[======]			11ms/step
	[======]			_
1/1	-			10ms/step
1/1	[=======]			11ms/step
1/1	[=======]		0s	10ms/step
1/1	[======]		0s	10ms/step
1/1	[======]		0s	12ms/step
1/1	[======]		0s	10ms/step
1/1	[======]		0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]		0s	10ms/step
1/1	[=======]		0s	11ms/step
1/1	[========]		0s	10ms/step
1/1	[=======]			10ms/step
1/1	[======]			10ms/step
1/1	[======]		0s	11ms/step
1/1	[=======]			_
٠.	-		0s	9ms/step
1/1	[======]		0s	10ms/step
1/1	[=======]			11ms/step
1/1	[======]	-	υs	10ms/step

```
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 9ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 9ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 9ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 9ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 9ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 12ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
```

Total Profit: Rs.17843.92



_ , _			_	
1/1	[=======]	-	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1				_
-, -	[=======]	_	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[==========]		0s	10ms/step
•		_		-
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[===========	_	0s	10ms/step
•	•			_
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=====================================		0s	10ms/step
•	,	_		_
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[==========]		0s	10ms/step
•		_	_	-
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]		_	10ms/step
-, -		_	0s	-
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[==========]		0s	10ms/step
•		_		_
1/1	[========]	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[===========	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
•		_	_	_
1/1	[=======]	-	0s	10ms/step
1/1	[= = = = = = = = = = = = = = =]	-	0s	10ms/step
			0s	10ms/step
1/1	[======]	_	UB	romb, bccb
1/1 1/1	[=======]	_	0s	11ms/step
٠.		_ _ _		_
1/1	[=======]	_	0s 0s	11ms/step

```
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
```

```
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [=======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
```

	-,		- '	(
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	-		0s	
	[=======]	_		10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
			_	
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	-	0s	9ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1			0s	10ms/step
	[=======]	_		-
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]		0s	10ms/step
1/1	[======]		0s	10ms/step
		_		
1/1		_	0s	10ms/step
1/1			0s	10ms/step
1/1		-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]		0s	11ms/step
1/1	-	_	_	_
	[=======]	_	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
	[]			
1/1	[======]	_	0s	11ms/step
1/1 1/1	-			

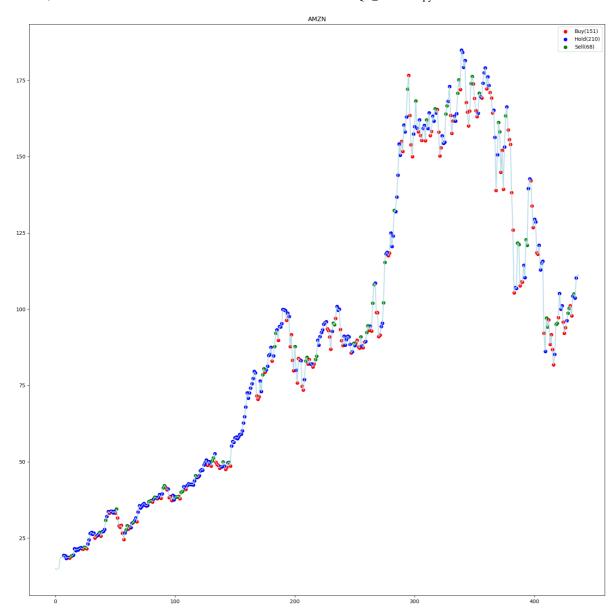
	-,			CL)
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	-		0s	
	[=======]	-		11ms/step
1/1	[======]	_	0s	17ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
		_	_	
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	-		0s	14ms/step
	[=======]	_		_
1/1	[=======]	_	0s	27ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]		0s	12ms/step
		_		_
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1		_	0s	11ms/step
1/1			0s	13ms/step
1/1		_	0s	11ms/step
				_
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[==========]		0s	10ms/step
		_		_
1/1	[=======]	_	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[==========]	_	0s	12ms/step
1/1	[=======]		0s	_
	•	-	_	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[======]		0s	10ms/step
1/1	[======]	_	0s	11ms/step

1/1 [======] - 0:	
1/1 [======] - 0:	
1/1 [======] - 0;	s 11ms/step
1/1 [======] - 0;	s 12ms/step
1/1 [======] - 0;	
1/1 [======] - 0;	s 10ms/step
1/1 [======] - 0;	s 10ms/step
1/1 [======] - 0;	
1/1 [======] - 0:	s 10ms/step

1/1	[========]	-	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
-	-			
1/1	[======]	-	0s	10ms/step
1/1	[========]	-	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]		0s	11ms/step
	-	_		-
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
				_
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
	-	_		_
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[============		0s	10ms/step
· .	-	_	_	
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]		_	10ms/step
	-	_	0s	-
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
	-		_	_
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[==========]	_	0s	11ms/step
	-	_		_
1/1	[======]	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[===========	_	0s	12ms/step
1/1	[======]	_	υS	11ms/step

```
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
```

Total Profit: Rs.21277.27



1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1			0s	
	[=======]	-		11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	14ms/step
		_		-
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[========]	-	0s	12ms/step
1/1	[======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]		0s	10ms/step
	-	_		
1/1	[======]	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	13ms/step
-			_	_
1/1	[========]	_	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[========]	-	0s	11ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1			0s	11ms/step
-	[=======]	_		_
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]		0s	10ms/step
		_	_	_
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	13ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]		0s	10ms/step
•		_		_
1/1	[======]	_	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1			_	_
	[=========]	_	0s	11ms/step
	-		^	10
1/1	[=======]	-	0s	10ms/step
1/1 1/1	[======]	<u>-</u>	0s 0s	10ms/step
1/1	[=======]	- - -		_
1/1 1/1	[======]		0s 0s	10ms/step

21/07/2023	3,01:12		DÇ	2N_model - Jupyter
1/1	[========]	_	0s	11ms/step
1/1	[========]		0s	13ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=========]	_	0s	13ms/step
1/1	[=======]		_	10ms/step
		_	0s	_
1/1	[=========]	_	0s	11ms/step
1/1	[========]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]		0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[==========]	_	0s	10ms/step
1/1	[==========]		0s	10ms/step
· .		_		-
1/1	[========]	_	0s	11ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[======]	-	0s	13ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=========]	_	0s	16ms/step
1/1	[==========]	_	0s	16ms/step
1/1	[=======]	_	0s	11ms/step
· .	-	_		_
1/1	[=======]	_	0s	10ms/step
1/1	[======]	_	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]			10ms/step
1/1	[======]			-
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	14ms/step
1/1	[=======]			10ms/step
1/1	[=======]			10ms/step
1/1	[=========]			12ms/step
1/1	[==========]			10ms/step
1/1	[=========]			_
	[=======]			-
1/1	-			-
1/1	[======]			-
1/1	[=======]			_
1/1	[======]			_
1/1	[= = = = = = = = = = = = = = = = = = =			-
1/1	[======]	-	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]			10ms/step
1/1	[==========]			10ms/step
1/1	[==========]			10ms/step
1/1	[=======]			11ms/step
1/1	[=======]			_
· .	-			-
1/1	[======]			-
1/1	[======]	-	υs	12ms/step

```
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 17ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 28ms/step
1/1 [======] - 0s 16ms/step
1/1 [======] - 0s 14ms/step
1/1 [=======] - 0s 14ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 56ms/step
1/1 [======] - 0s 14ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 13ms/step
1/1 [=======] - 0s 14ms/step
1/1 [======] - 0s 13ms/step
1/1 [======] - 0s 16ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 13ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [======] - 0s 13ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
```

. 1, 0 /	1202.	7,01.12		D	211_moder - Jupyte
1	/1	[=======]	-	0s	10ms/step
1	/1	[======]	-	0s	10ms/step
1	/1	[======]	-	0s	10ms/step
1	/1	[=======]	-	0s	10ms/step
1	/1	[========]	-	0s	10ms/step
1	/1	[========]	-	0s	10ms/step
1	/1	[=======]	-	0s	10ms/step
1	/1	[======]	-	0s	10ms/step
1	/1	[======]	-	0s	10ms/step
1	/1	[=======]	_	0s	9ms/step
1	/1	[========]	_	0s	9ms/step
1	/1	[=======]	_	0s	10ms/step
1	/1	[========]	_	0s	10ms/step
1	/1	[=======]	_	0s	10ms/step
1	/1	[=======]	_	0s	10ms/step
1	/1	[=======]	_	0s	10ms/step
1	/1	[========]	_	0s	9ms/step
1	/1	[=======]	_	0s	10ms/step
1	/1	[========]	_	0s	9ms/step
1	/1	[=========]	_	0s	10ms/step
1	/1	[=========]	_	0s	10ms/step
1	/1	[=======]	_	0s	10ms/step
	/1	[=======]	_	0s	10ms/step
	/1	[=======]	_	0s	10ms/step
	/1	[=======]	_	0s	10ms/step
	/1	[=======]	_	0s	10ms/step
	/1	[=======]	_	0s	10ms/step
	/1	[=======]	_	0s	10ms/step
	/1	[========]	_	0s	10ms/step
	/1	[=======]	_	0s	10ms/step
	/1	[=======]	_	0s	10ms/step
	/1	[=======]	_	0s	10ms/step
	/1	[=======]	_	0s	10ms/step
	/1	[========]	_	0s	10ms/step
	/ <u>1</u> /1	[=========]			10ms/step
_	<i>,</i> –	[========]			
		[========]			10ms/step
	•	[========]			10ms/step
	/1	[=======]			10ms/step
	/ <u>1</u> / 1	[=======]		0s	10ms/step
_	/1	[=======]		0s	10ms/step
	/ 1 / 1	[========]		0s	
_	/1	[=======]			10ms/step 10ms/step
	/1	[=======]			10ms/step
	/ 1 / 1	[=========]			10ms/step
	/ 1 / 1	[========]			-
	/ 1 / 1	-		0s	10ms/step
	/ 1 / 1	[========]		0s	10ms/step
	/ 1 / 1	[========]		0s	10ms/step
	/ 1 / 1	[========]		0s	10ms/step
		[========]			10ms/step
	/1	[========]			10ms/step
	/1 /1	[=======]			10ms/step
	/1 /1	[=======]			10ms/step
	/1 /1	[=======]			10ms/step
	/1	[=======]			10ms/step
	/1	[========]		0s	10ms/step
	/1	[========]		0s	10ms/step
	/1	[========]			9ms/step
	/1	[========]			10ms/step
	/1	[=======]			10ms/step
1	/1	[======]	-	US	yms/step

```
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 9ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 9ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 9ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 9ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 9ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 9ms/step
1/1 [======] - 0s 9ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 9ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
```

1/1 [======] - 0s	
1/1 [======] - 0s	10ms/step
1/1 [======] - 0s	
1/1 [======] - 0s	
1/1 [======] - 0s	
1/1 [======] - 0s	10ms/step
1/1 [======] - 0s	
1/1 [======] - 0s	
1/1 [======] - 0s	10ms/step

				- 1,
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[==========]	_	0s	10ms/step
1/1	-	_		10ms/step
	[=======]	_	0s	_
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	_	0s	9ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[==========	_	0s	10ms/step
1/1			0s	10ms/step
	[=======]	-		_
1/1	[=======]	_	0s	10ms/step
1/1	[=======]		0s	9ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	9ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
	[=======]			10ms/step
1/1	[=======]			10ms/step
1/1	[========]			10ms/step
1/1	[============			10ms/step
1/1	[=======]			10ms/step
1/1	[=======]			_
	•			10ms/step
1/1	[=======]			10ms/step
1/1	[=======]			10ms/step
1/1	[======]			10ms/step
1/1	[======]			10ms/step
1/1	[======]			10ms/step
1/1	[=======]			10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	13ms/step
1/1	[========]	_	0s	9ms/step
1/1	[=======]			9ms/step
1/1	[=======]			10ms/step
1/1	[=======]			10ms/step
1/1	[========]			10ms/step
1/1	[=========]			_
-	[=========]			_
-/ <u>-</u>		_	U D	Toma, aceb

21/07/2023	, 01:12		DÇ	N_model - Jupyter
1/1	[==========]	_	0s	10ms/step
	[=========]		0s	10ms/step
	[=========]	_	0s	10ms/step
	-		_	10ms/step
	[========]	-	0s	-
	[=========]	-	0s	10ms/step
	[========]	-	0s	10ms/step
1/1	[==========]	-	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[==========]	_	0s	10ms/step
1/1	[==========]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
	[=========]		0s	10ms/step
	[=========]		0s	10ms/step
	-		0s	
	[========]			10ms/step
	[========]		0s	10ms/step
	[=========]		0s	10ms/step
	[========]		0s	10ms/step
1/1	[=========]	-	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[==========]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[===========]	_	0s	9ms/step
	[==========]	_	0s	10ms/step
	[=========]		0s	10ms/step
	[=========]			10ms/step
	[=========]			10ms/step
	[========]		0s	10ms/step
				_
	[========]		0s	10ms/step
	[========]		0s	10ms/step
	[========]		0s	10ms/step
	[=======]		0s	10ms/step
1/1	[========]	-	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
	[=========]			10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[==========]	_	0s	10ms/step
	[========]			10ms/step
	[========]			10ms/step
	[=========]			10ms/step
	[=========]			10ms/step
	[========]			10ms/step
	[========]			10ms/step
	-			_
	[========]			10ms/step
	[========]			10ms/step
	[========]			10ms/step
	[========]			_
	[========]			_
	[=========]			_
1/1	[=========]	-	0s	16ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	10ms/step
	[==========]			10ms/step
	[========]			10ms/step
	[=========]			10ms/step
	[=========]			11ms/step
	[=========]			_
	[========]			_
	[========]			
1/ I		_	υb	Toma, aceb

	-,		- '	(
1/1	[========]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1			0s	
	[=======]	-		10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
			_	_
1/1	[=======]	_	0s	10ms/step
1/1	[======]	_	0s	19ms/step
1/1	[======]	-	0s	14ms/step
1/1	[=======]	-	0s	14ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	-		0s	11ms/step
	[=======]	_		_
1/1	[========]	_	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[==========]		0s	10ms/step
1/1	[=======]		0s	10ms/step
	-	_		
1/1		_	0s	11ms/step
1/1			0s	11ms/step
1/1	·	_	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]		0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[==========		0s	12ms/step
1/1	[=======]	_	_	_
	-	_	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[======]	_	0s	9ms/step
1/1	[======]	_	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=====]	_	0s	10ms/step
1/1	[======]	_	0s	12ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[==========		0s	11ms/step
1/1	[==========]			10ms/step
±/ ±			0.5	romb/ bceb

1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1			_	_
•	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1			0s	10ms/step
	[=======]	_	_	_
1/1	[======]	_	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[===========	_	0s	12ms/step
			_	_
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	11ms/step
1/1			_	_
	[=======]	_	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[======]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
	[==========]			11ms/step
			_	_
1/1	[=======]			10ms/step
1/1	[======]			-
1/1	[=======]	-	0s	-
1/1	[======]	_	0s	12ms/step
1/1	[======]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]			12ms/step
1/1	[=========]			10ms/step
1/1	[========]			12ms/step
٠.	-			_
1/1	[======]			10ms/step
1/1	[======]			12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=========]			12ms/step
1/1	[========]			11ms/step
•	-			
1/1	[=======]			11ms/step
1/1	[=======]			11ms/step
1/1	[======]			12ms/step
1/1	[======]			10ms/step
1/1	[======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]			-
				-, - C-P

1/1	-,		- '	CL)
1/1	[========]	_	0s	11ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	-		0s	
	[=======]	-		11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
	-			
1/1	[======]	_	0s	13ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	13ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[==========]		0s	12ms/step
•	-	_		-
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	13ms/step
1/1	[========]	_	0s	11ms/step
1/1	[==========]		0s	12ms/step
1/1	[=======]	_	0s	11ms/step
	,	_		
1/1			0s	12ms/step
1/1	[=======]			10ms/step
1/1	[======]		0s	12ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]		0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	11/
1/1				11ms/step
т/т	[=========]	_	0s	11ms/step 12ms/step
1/1	[======]	- -	0s 0s	_
•	[======]	_	0s	12ms/step 10ms/step
1/1 1/1	[======]	<u>-</u>	0s 0s	12ms/step 10ms/step 11ms/step
1/1 1/1 1/1	[======] [=======]	_	0s 0s 0s	12ms/step 10ms/step 11ms/step 10ms/step
1/1 1/1 1/1 1/1	[======] [=======] [======]	<u>-</u>	0s 0s 0s 0s	12ms/step 10ms/step 11ms/step 10ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1		<u>-</u>	0s 0s 0s 0s	12ms/step 10ms/step 11ms/step 10ms/step 11ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1 1/1		<u>-</u>	0s 0s 0s 0s 0s	12ms/step 10ms/step 11ms/step 10ms/step 11ms/step 11ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1		<u>-</u>	0s 0s 0s 0s 0s 0s	12ms/step 10ms/step 11ms/step 10ms/step 11ms/step 11ms/step 12ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1		<u>-</u>	0s 0s 0s 0s 0s	12ms/step 10ms/step 11ms/step 10ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - -	0s 0s 0s 0s 0s 0s	12ms/step 10ms/step 11ms/step 11ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0s 0s 0s 0s 0s	12ms/step 10ms/step 11ms/step 11ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 13ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - -	0s 0s 0s 0s 0s 0s 0s	12ms/step 10ms/step 11ms/step 11ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - -	0s	12ms/step 10ms/step 11ms/step 11ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 13ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s	12ms/step 10ms/step 11ms/step 11ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 13ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - - -	0 s 0 s 0 s 0 s 0 s 0 s 0 s 0 s	12ms/step 10ms/step 11ms/step 10ms/step 11ms/step 11ms/step 12ms/step 12ms/step 12ms/step 13ms/step 12ms/step 12ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - - -	0s	12ms/step 10ms/step 11ms/step 11ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - - -	0s 0	12ms/step 10ms/step 11ms/step 11ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 11ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0	12ms/step 10ms/step 11ms/step 11ms/step 11ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 11ms/step 11ms/step 11ms/step 11ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0	12ms/step 10ms/step 11ms/step 11ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 11ms/step 11ms/step 11ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0	12ms/step 10ms/step 11ms/step 11ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 11ms/step 11ms/step 11ms/step 11ms/step 11ms/step 11ms/step 11ms/step 11ms/step

1/1 [======] - 0s	
1/1 [======] - 0s	12ms/step
1/1 [======] - 0s	
1/1 [======] - 0s	13ms/step
1/1 [======] - 0s	10ms/step
1/1 [======] - 0s	
1/1 [======] - 0s	
1/1 [======] - 0s	
1/1 [======] - 0s	11ms/step

1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[==========]			_
•	-	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[==========]		0s	12ms/step
•		_		_
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]		0s	12ms/step
1/1		_		-
-, -	[=======]	_	0s	12ms/step
1/1	[=======]	-	0s	13ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]		0s	11ms/step
1/1		_		_
•	[========]	_	0s	12ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1		_	0s	10ms/step
-,-		_		-
1/1	[=======]	_	0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]	_		_
•		_	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[========]	-	0s	12ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_		_
•		_	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
	[======================================		~ ~	
1/1	[=======]		_	10ms/step

	-,		_ ,	(
1/1	[========]	_	0s	17ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	-		0s	
	[=======]	_		10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	_	0s	13ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1			0s	12ms/step
	[======]	_		_
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	13ms/step
1/1	[======]	_	0s	12ms/step
1/1	[========]	_	0s	14ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=========]		0s	12ms/step
	-	_		_
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	13ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=========]	_	0s	13ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=========]		0s	11ms/step
1/1	[==========]		0s	11ms/step
1/1	[======]		0s	
1/1	-	_		12ms/step
٠.	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1		_	0s	10ms/step
1/1			0s	12ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]		0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[======]		0s	12ms/step
	-	_	_	_
1/1	[======]	_	0s	13ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]		0s	12ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[======]		0s	10ms/step
1/1	[=======]			11ms/step
т/ Т]	_	υÞ	rima/aceb

```
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 13ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 14ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 12ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
```

```
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 14ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======= ] - 0s 34ms/step
1/1 [======] - 0s 13ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 13ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 13ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
```

	-,			CL)
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	-		0s	
	[=======]	_		10ms/step
1/1	[======]	_	0s	12ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	13ms/step
		_		
1/1	[======]	_	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1			0s	
	[=======]	_		13ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]		0s	11ms/step
		_		_
1/1	[======]	_	0s	13ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1		_	0s	11ms/step
1/1			0s	12ms/step
1/1		_	0s	10ms/step
				_
1/1	[======]	_	0s	12ms/step
1/1	[======]		0s	13ms/step
1/1	[======]	-	0s	13ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=========]	_	0s	13ms/step
1/1	[========]		0s	11ms/step
	-	_		_
1/1	[======]	_	0s	12ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[========]	_	0s	15ms/step
1/1	[=======]		0s	13ms/step 13ms/step
	-	-	_	_
1/1	[======]	_	0s	11ms/step
1/1	[======]		0s	13ms/step
1/1	[======]	_	0s	11ms/step

	[======]			
	[======]			
1/1	[======]	_	0s	11ms/step
	[======]			
	[======]			
	[======]			
	[======]			
	[======]			
1/1	[=======]	_	0s	10ms/step

1/1	[========]	-	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
	-			
1/1	[======]	-	0s	12ms/step
1/1	[========]	-	0s	13ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[===========		0s	10ms/step
		_		_
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
	-			_
1/1	[======]	_	0s	12ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	13ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	13ms/step
1/1	[=======]	_	0s	10ms/step
-	-			
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
				_
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]		0s	10ms/step
· .	-	_	_	
1/1	[=======]	-	0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[==========]		0s	12ms/step
		_		-
1/1	[======]	-	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[==========]		_	11ms/step
	-	_	0s	_
1/1	[======]	_	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[============	_	0s	10ms/step
1/1	[======]	_	0s	_
		_	_	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[= = = = = = = = =]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]			11ms/step
1/1	[=====================================			12ms/step
т/ Т	ι	_	UB	-zma/acep

	,		`	C. /= v.I.)
1/1	[=========]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
•		_		_
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	14ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	13ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=====================================		0s	11ms/step
		_		-
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]		0s	10ms/step
		_		_
1/1	[=======]	_	0s	11ms/step
1/1	[= = = = = = = = = = = = = = =]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[==========]		0s	10ms/step
•		_		_
1/1	[=======]	_	0s	9ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	9ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[==========]		0s	11ms/step
	[=======]	_		_
1/1	· ,	_	0s	11ms/step
1/1			0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]		0s	10ms/step
1/1	[==========]	_	0s	10ms/step
1/1	[=======]	_		_
•		_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[==========]		0s	11ms/step
1/1	[=======]		_	_
•	-	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]		0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[========]		0s	10ms/step
1/1				_
т/Т	[======]	_	US	11ms/step

1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
			_	_
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1				_
	[=======]	_	0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	12ms/step
	-			_
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
-			_	-
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]		0s	11ms/step
		_	_	_
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]		_	_
	-	_	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	
1/1	[========]			10ms/step
-				_
1/1	[======]			11ms/step
1/1	[======]			10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[==========			11ms/step
٠.	,			_
1/1	[======]			11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]			10ms/step
٠.				_
1/1	[=======]			11ms/step
1/1	[=======]			10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]			_
1/1	[==========]			-
	•			-
1/1	[======]	_	US	10ms/step

1/1				
1 / 1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	-		0s	
	[=======]	-		10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
			_	
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[======================================	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	-		0s	11ms/step
	[=======]	_		-
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[======================================	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]		0s	11ms/step
1/1	[=======]	_	0s	10ms/step
	-	-		
1/1		_	0s	11ms/step
1/1	•		0s	10ms/step
1/1		-	0s	11ms/step
1/1	[========]	_	0s	
	-			10ms/step
1/1	[======]	_	0s	11ms/step
$\frac{1}{1}$	-	_		_
	[=======]	_	0s	11ms/step
1/1	[======]	- -	0s 0s	11ms/step 10ms/step
1/1 1/1	[=======] [=======] [=======]	- - -	0s 0s 0s	11ms/step 10ms/step 12ms/step 11ms/step
1/1 1/1 1/1	[======] [=======] [=======] [======]	- - - -	0s 0s 0s 0s	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1	[======] [=======] [=======] [=======] [=======]	- - - - -	0s 0s 0s 0s 0s	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1		- - - -	0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1 1/1		- - - - -	0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - -	0s 0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 11ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - -	0s	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 11ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - -	0s	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 11ms/step 10ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - -	0 s 0 s 0 s 0 s 0 s 0 s 0 s 0 s	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 11ms/step 10ms/step 11ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - -	0s 0s 0s 0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 10ms/step 11ms/step 10ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - -	0s 0	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - - -	0s 0s 0s 0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - - -	0s 0	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - - -	0s 0	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 10ms/step 10ms/step 11ms/step 10ms/step 12ms/step 11ms/step 10ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 11ms/step 10ms/step 11ms/step 12ms/step 11ms/step 12ms/step 10ms/step 12ms/step 10ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 10ms/step 12ms/step 10ms/step 11ms/step 10ms/step 11ms/step 10ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0s 0s 0s 0s 0s 0s 0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 10ms/step 10ms/step 11ms/step 12ms/step 10ms/step 12ms/step 10ms/step 11ms/step 10ms/step 10ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0s 0s 0s 0s 0s 0s 0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 10ms/step 10ms/step 10ms/step 10ms/step 12ms/step 10ms/step 10ms/step 10ms/step 10ms/step 10ms/step 10ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0	11ms/step 10ms/step 12ms/step 11ms/step 11ms/step 10ms/step 10ms/step 10ms/step 10ms/step 10ms/step 10ms/step 12ms/step 11ms/step 10ms/step 11ms/step 10ms/step 10ms/step 10ms/step 10ms/step 12ms/step 12ms/step 12ms/step 12ms/step 11ms/step

21/07/2023	,01:12		DC	ZIN_model - Jupyter
1/1	[=========]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	- [========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
	[=======]	_	0s	12ms/step
	[========]	_	0s	10ms/step
	[=========]	_	0s	12ms/step
	[========]	_	0s	10ms/step
			0s	_
	[========]			11ms/step
	[=======]			10ms/step
	[=======]		_	12ms/step
	[=======]		0s	10ms/step
	[========]		0s	12ms/step
	[=======]		0s	10ms/step
	[======]		0s	12ms/step
1/1	[========]	-	0s	11ms/step
	[========]	-	0s	12ms/step
1/1	[=========]	-	0s	10ms/step
1/1	[=========]	-	0s	12ms/step
1/1	[========]	-	0s	10ms/step
1/1	[=========]	-	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=========]	_	0s	10ms/step
	[========]	_	0s	12ms/step
	[========]			10ms/step
	[========]			12ms/step
	[=======]		0s	10ms/step
	[=======]		0s	12ms/step
	[========]		0s	10ms/step
	[========]		0s	11ms/step
	[========]		0s	10ms/step
	[=========]			12ms/step
1/1	-			-
	[=======]			-
	[=======]			_
	[=========]			-
	[=========]			_
	-			_
	[========]			_
	[=======]			_
	[=======]			12ms/step
	[=======]			10ms/step
	[=======]			12ms/step
	[=======]			-
	[========]			-
	[========]			-
	[========]			_
	[=======]			_
	[=======]			_
	[========]			_
	[=======]			_
	[========]			_
	[========]			-
1/1	[=======]	-	0s	11ms/step
	[=======]			12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[========]	_	0s	10ms/step
	•			-

	[======]			
1/1	[======]	_	0s	11ms/step
1/1	[======]	_	0s	11ms/step
	[======]			
	[======]			
	[======]			
	[======]			
	[======]			
1/1	[=======]	_	0s	10ms/step

1/1	[========]	-	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	-	_	0s	11ms/step
	[=======]			
1/1	[======]	-	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	13ms/step
1/1	[=======]	_	0s	11ms/step
	-			_
1/1	[======]	_	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
	-			_
1/1	[======]	-	0s	11ms/step
1/1	[========]	-	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
	-			
1/1	[======]	-	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1			_	_
	[=======]	_	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1			0s	
	[=======]	-		11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	-		0s	13ms/step
· .	[=======]	_	_	
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[===========		0s	11ms/step
	•	_	_	_
1/1	[======]	_	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[======]		0s	12ms/step
٠.	-	-		-
1/1	[======]	_	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	11ms/step
•			_	_
1/1	[=======]	-	0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[===========	_	0s	12ms/step
	[======]			_
1/1			0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[============			11ms/step
т/ Т	ι	_	UB	TIMB/ BCED

1/1	[=======]	-	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	-		_	_
	[=======]	-	0s	13ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1			_	_
	[========]	_	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[========]	-	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
	•			_
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
	-		_	-
1/1	[=======]	-	0s	11ms/step
1/1	[========]	-	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]		0s	12ms/step
		_	_	_
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
-	-	_		_
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]			
				_
1/1	[=======]			-
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]			_
٠.				10)mg/gten
	,			10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[======]	- -	0s 0s	11ms/step 10ms/step
٠.	[======]	- -	0s 0s	11ms/step
1/1	[======]	- - -	0s 0s 0s	11ms/step 10ms/step
1/1 1/1	[=======] [=======] [=======]	- - -	0s 0s 0s 0s	11ms/step 10ms/step 11ms/step 10ms/step
1/1 1/1 1/1 1/1	[=======] [=======] [=======] [=======]	- - - -	0s 0s 0s 0s	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1		- - - -	0s 0s 0s 0s 0s	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1		- - - - -	0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 10ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - -	0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 12ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1 1/1		- - - - - -	0s 0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 11ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - -	0s 0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 12ms/step 11ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - -	0s 0s 0s 0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 11ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - -	0s	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 11ms/step 12ms/step 11ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - -	0s	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 11ms/step 12ms/step 11ms/step 12ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - - -	0s	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 11ms/step 12ms/step 11ms/step 12ms/step 10ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - - - -	0s 0s 0s 0s 0s 0s 0s 0s 0s	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 10ms/step 10ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 11ms/step 12ms/step 12ms/step 10ms/step 10ms/step 10ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 10ms/step 10ms/step 10ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0	11ms/step 10ms/step 11ms/step 10ms/step 12ms/step 12ms/step 11ms/step 12ms/step 11ms/step 10ms/step 10ms/step 10ms/step 10ms/step 11ms/step

	,		`	C- /
1/1	[=========]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
•		_		_
1/1	[======]	_	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[==========]		0s	11ms/step
		_		-
1/1	[=======]	-	0s	13ms/step
1/1	[= = = = = = = = = = = = = =]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[======]	_		_
•	-	_	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	13ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[==========]		0s	10ms/step
		_		_
1/1	[=======]	_	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[==========]		0s	12ms/step
٠.	t ,	_		
1/1		_	0s	10ms/step
1/1	[=======]			12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[========]		0s	10ms/step
•		_		
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[============	_	0s	10ms/step
1/1	[=======]		0s	11ms/step
	-	_		_
1/1	[======]	_	0s	10ms/step
1/1	[=======]		0s	10ms/step
1/1	[======]			11ms/step
1/1	[======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]		0s	12ms/step
1/1	[=========]			12ms/step
-/ -			, ,	, всер

	,		`	C. /= v.I.)
1/1	[=========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
•		_		_
1/1	[======]	_	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	13ms/step
1/1	[=========]		0s	11ms/step
		_		_
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]		0s	_
		_		11ms/step
1/1	[======]	-	0s	13ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=========]		0s	11ms/step
•		_		_
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]		0s	10ms/step
		_		-
1/1	[=======]	_	0s	10ms/step
1/1		-	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	13ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]		0s	12ms/step
1/1	[=========]		0s	10ms/step
1/1	[=======]		0s	10ms/step
•		-		_
1/1	[=======]	_	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[=======]			10ms/step
•	-	_	0s	_
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]		0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[========]	_	0s	12ms/step
1/1	[==========]	_	0s	12ms/step
1/1	[========]		0s	10ms/step
٠.				_
1/1	[======]	_	υS	11ms/step

	-,		- '	(
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	-		0s	
	[=======]	_		11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
			_	
1/1	[======]	_	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]		0s	11ms/step
	-	_		_
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[==========]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]		0s	11ms/step
1/1	[=========]		0s	10ms/step
1/1	[=======]		0s	
1/1	-	_		12ms/step
٠.	[======]	_	0s	10ms/step
1/1	[=======]	-	0s	12ms/step
1/1		_	0s	11ms/step
1/1	[======]			13ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]		0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	13ms/step
1/1	[======]		0s	12ms/step
	-	_	_	_
1/1	[======]	_	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	13ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[==========	_	0s	10ms/step
1/1	[======]		0s	11ms/step
1/1	[=======]			11ms/step
т/ Т		_	υb	rims/sceb

1/1	[======]	_	0s	12ms/step
	[======]			
	[======]			
	[======]			
	[======]			
	[======]			
	[======]			
	[======]			-
1/1	[======]	_	0s	10ms/step

_ , _			_	
1/1	[======]	-	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[==========]			-
•		_	0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[===========		0s	11ms/step
•		_		_
1/1	[=======]	_	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[======]			_
•	-	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[===========		0s	11ms/step
•	,	_		_
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[===========		0s	11ms/step
•	,	_		_
1/1	[=======]	_	0s	12ms/step
1/1	[= = = = = = = = =]	-	0s	12ms/step
1/1	[======]	-	0s	13ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]		_	_
-, -		_	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[===========		0s	10ms/step
•		_		_
1/1	[========]	_	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]	_	0s	_
•		_		10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_		12ms/step
-, -			- -	

	-,		- '	(
1/1	[=========]	_	0s	12ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1			0s	
-	[=======]	-		11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	13ms/step
	-	_		
1/1	[=======]	_	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[==========]	_	0s	11ms/step
	•	_		
1/1	[=======]	_	0s	12ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]		0s	12ms/step
		_		_
1/1	[=======]	_	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1			0s	10ms/step
1/1	[============		0s	11ms/step
				-
1/1	[======]	-	0s	11ms/step
1/1	[=======]		0s	12ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[==========]		0s	12ms/step
	•	_		
1/1	[=======]	_	0s	11ms/step
1/1	[======]	-	0s	13ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[==========]	_	0s	12ms/step
1/1	[=======]		0s	_
	-	-	_	12ms/step
1/1	[======]	_	0s	12ms/step
1/1	[======]		0s	11ms/step
1/1	[======]	_	0s	11ms/step

	,			C
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[==========]	_	0s	11ms/step
1/1		_	_	12ms/step
	[=======]	_	0s	_
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	12ms/step
1/1	[==========]	_	0s	12ms/step
· ·	-		_	
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[==========]	_	0s	12ms/step
1/1	[=======]	_		_
*.	-	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]		0s	11ms/step
	[======]			12ms/step
1/1	[======]	-	0s	13ms/step
1/1	[=======]	-	0s	13ms/step
1/1	[======]	_	0s	13ms/step
1/1	[========]	_	0s	14ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]			12ms/step
1/1	[========]			11ms/step
1/1	[==========]			13ms/step
1/1	[=========]			12ms/step
•	[=======]			_
				13ms/step
1/1	[=======]			12ms/step
1/1	[======]			13ms/step
1/1	[======]			11ms/step
1/1	[======]			11ms/step
1/1	[=======]			12ms/step
1/1	[======]	_	0s	11ms/step
1/1	[======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]			12ms/step
1/1	[==========]			
1/1	[==========]			
1/1	[======]			
1/1	[=======]			
•	-			-
1/1	[======]	-	υS	∠4ms/step

	-,		_ ,	(
1/1	[========]	_	0s	12ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	-		0s	
	[=======]	-		11ms/step
1/1	[======]	-	0s	13ms/step
1/1	[=======]	-	0s	13ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
	-			
1/1	[======]	_	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	14ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	13ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[===========]		0s	11ms/step
	-	_		_
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	13ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[======]	-	0s	14ms/step
1/1	[======]	_	0s	13ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	13ms/step
1/1	[===========]		0s	12ms/step
1/1	[=======]	_	0s	12ms/step
	,	_		
1/1			0s	12ms/step
1/1	[=======]			12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=====]		0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
•				
1/1	-	_	0s	_
1/1	[======]	_	0s	12ms/step
1/1	[======]	-	0s	12ms/step 11ms/step
1/1 1/1	[======] [=======] [======]	- - -	0s 0s	12ms/step 11ms/step 12ms/step
1/1 1/1 1/1	[======] [=======] [======]	- - -	0s 0s 0s	12ms/step 11ms/step 12ms/step 11ms/step
1/1 1/1 1/1 1/1		- - -	0s 0s 0s 0s	12ms/step 11ms/step 12ms/step 11ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1		- - - - -	0s 0s 0s 0s	12ms/step 11ms/step 12ms/step 11ms/step 12ms/step 10ms/step
1/1 1/1 1/1 1/1 1/1 1/1		- - -	0s 0s 0s 0s 0s	12ms/step 11ms/step 12ms/step 11ms/step 12ms/step 10ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - -	0s 0s 0s 0s 0s 0s	12ms/step 11ms/step 12ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - -	0s 0s 0s 0s 0s	12ms/step 11ms/step 12ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - -	0s 0s 0s 0s 0s 0s	12ms/step 11ms/step 12ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - -	0s 0s 0s 0s 0s 0s	12ms/step 11ms/step 12ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - -	0s 0s 0s 0s 0s 0s 0s	12ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 13ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - -	0s	12ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 13ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - -	0s	12ms/step 11ms/step 12ms/step 12ms/step 10ms/step 12ms/step 12ms/step 12ms/step 13ms/step 13ms/step 13ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - -	0 s 0 s 0 s 0 s 0 s 0 s 0 s 0 s 0 s	12ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 13ms/step 13ms/step 13ms/step 13ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1		- - - - - - - - -	0s 0s 0s 0s 0s 0s 0s 0s 0s	12ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 13ms/step 13ms/step 13ms/step 13ms/step 13ms/step 12ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1			0s 0	12ms/step 11ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 12ms/step 13ms/step 13ms/step 13ms/step 11ms/step 12ms/step 10ms/step

.11011202.	5,01.12		D	211_IIIodel - Jupyte
1/1	[======]	_	0s	13ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	13ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	13ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[======]	_	0s	12ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	13ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	13ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	13ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]		0s	11ms/step
1/1	[=======]	_	0s	13ms/step
1/1	[=======]	_	0s	13ms/step
1/1	[=======]	_	0s	13ms/step
1/1	[=======]	_	0s	13ms/step
1/1	[=======]	_	0s	
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
	•			-

1/1	[======]	_	0s	11ms/step
	[======]			
	[======]			
	[======]			
	[======]			
	[======]			
	[======]			-
	[======]			-
1/1	[======]	_	0s	12ms/step

1/1			0	10/
1/1	[======]		0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
•		_		_
1/1	[=======]	_	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]		0s	11ms/step
1/1	[=======]	_		_
•		_	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[= = = = = = = = = = = = = =]	-	0s	10ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
- <i>,</i> -		_		_
1/1	[=========]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[==========]		0s	11ms/step
-		_		_
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[==========]		0s	11ms/step
	[=======]			_
1/1			0s	12ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[==========]		0s	11ms/step
•		_		_
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[========]	-	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]		0s	10ms/step
1/1	[========]		0s	10ms/step
1/1	[=======]			_
•		_	0s	10ms/step
1/1	[=======]		0s	11ms/step
1/1	[=======]			12ms/step
1/1	[======]	-	0s	11ms/step

	-,		- '	(
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=========]	_	0s	11ms/step
1/1			0s	
	[=======]	_		11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
			_	
1/1	[======]	_	0s	10ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]		0s	11ms/step
	-	_		_
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]		0s	10ms/step
1/1	[======]		0s	11ms/step
	-	_		
1/1		_	0s	10ms/step
1/1			0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]		0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]		0s	10ms/step
1/1	[======]	_	_	_
	-	_	0s	11ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=======]	-	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[======]	_	0s	10ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	-	_	0s	12ms/step
	[========]		UD	TZIIIS/SCEP
1/1	[=======]			12ms/step 12ms/step

	-,		_ ,	(
1/1	[========]	_	0s	12ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	-		0s	_
	[=======]	_		10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[=======]	-	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
			_	
1/1	[======]	_	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=========]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[===========]		0s	11ms/step
	-	_		_
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	12ms/step
1/1	[=======]	-	0s	11ms/step
1/1	[======]	-	0s	11ms/step
1/1	[========]	_	0s	12ms/step
1/1	[=========]	_	0s	12ms/step
1/1	[========]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[========]	_	0s	11ms/step
1/1	[===========]		0s	10ms/step
1/1	[=======]		0s	10ms/step
	-	-		
1/1			0s	11ms/step
1/1	•		0s	12ms/step
1/1	·	_	0s	13ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]		0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[========]	_	0s	10ms/step
1/1	[========]	_	0s	10ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[=======]		0s	11ms/step
	-	_	_	_
1/1	[======]	_	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	12ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	-	0s	11ms/step
1/1	[======]	-	0s	10ms/step
1/1	[======]	_	0s	11ms/step
1/1	[=======]	_	0s	10ms/step
1/1	[=======]	_	0s	12ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=======]	_	0s	11ms/step
1/1	[=========]	_	0s	10ms/step
1/1	[==========		0s	10ms/step
1/1	[==========]			10ms/step
±/ ±			0.5	romb/ bceb

```
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
```

Total Profit: Rs.26042.81

TESTING WITH VALUE CHANGE

Money=20000

In [14]:

AAPI

```
for stock in stocks:
   test = pd.read_csv(stock+'.csv')
   l = len(test)
   agent.money=Money
160
   agent.inventory=0.
   agent.is_eval=True
   agent.transactions=0.
   test=np.array(test['Close'])
   state=get_state(agent,test[0:window_size])
   decisions={0:[],1:[],2:[]}
   for t in range(window size, l-1):
         action, = agent.act(state)
120
         next_state = get_state(agent,test[tawindow_size+1:t+1])
         decisions[action].append([t-1,test[t+1]])
         if action == 1: # buy
            buy(agent,float(test[t-1]))
         elif action == 2 :
            sell(agent, test[t-1])
         done = True if t == 1 - 2 else False
         state = next state
         if done:
            agent.money+=agent.inventoryffloat(test[t])
            print("Total Profit: " + formatPrice(agent.money-Money))
            print("----
   h = np.array(decisions[0])
   b = np.array(decisions
   s = np.array(decisipprs[2])
   plt.figure(figure=(20,10))
   plt.title(stock)
   Buy=plt.scatter(b[:,0],b[:,1],color='r')
   Hold=plt.scatter(h[:,0],h[:,1];color='b')
   Sell=plt.scatter(s[:,0],s[:,1],color='g')
   plt.plot(range(len(test)), test, color='lightblue')
   plt.legend(handles = [Buy, Hold, Sell],
            labels = ['Buy'+'('+str(len(b))+')', 'Hold'+'('+str(len(h))+')', 'Se
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 13ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 15ms/step
1/1 [======= ] - 0s 14ms/step
1/1 [=======] - 0s 13ms/step
1/1 [======] - 0s 13ms/step
1/1 [======= ] - 0s 13ms/step
1/1 [=======] - 0s 13ms/step
1/1 [======] - 0s 13ms/step
1/1 [======] - 0s 14ms/step
1/1 [======] - 0s 14ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
1/1 [======] - 0s 12ms/step
```

```
1/1 [======= ] - 0s 11ms/step
          ======= ] - 0s 10ms/step
1/1 [======
           ========= ] - 0s 12ms/step
======== | - 0s 13ms/step
1/1 [======] - 0s 11ms/step
₹₱1[[±±============] - 0s 12ms/step
1/1 [======] - 0s 10ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 11ms/step
1/1[[+==========] - 0s 15ms/step
1/1 [======] - 0s 12ms/step
1/1 [=======] - 0s 12ms/step
1/1 [======
          ========== ] - 0s 11ms/step
1/1 [=======] - 0s 10ms/step
1/1 [======== ] - 0s 10ms/step
1/1 [======= ] - 0s 10ms/step
1/1 [=========== ] - 0s 10ms/step
  [======] - 0s 10ms/step
1/1 [======] - 0s 10ms/step
1/1 [======] - 0s 11ms/step
1/1 [=======] - 0s 11ms/step
1/1 [======= ] - 0s 12ms/step
1/1 [======] - 0s 11ms/step
1/1 [======] - 0s 12ms/step
1/1 [======= ] - 0s 11ms/step
1/1 [======] - 0s 10ms/step
```