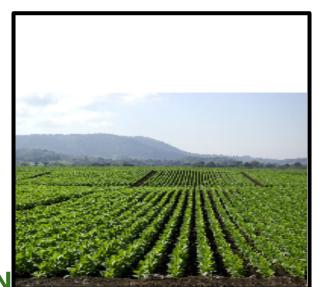# ASSIGNMENT-IV

FERTILIZER RECOMMENDATION SYSTEM FOR DISEASE PREDICTION

DATE	31 october 2022
STUDENT NAME	1.MATHIARASI.J(TEAM LEADER)-622219104015 2.P.SANDHIYA-622219104024 3.R.KAVIPRIYA-622219104010 4.M.MAMTHA-622219104030 5.S.SAABIRA-622219104023
MAXIMUM MARKS	2 marks
MARK ALLOTTED	

SOURCE CODE:

```
Import pandas as pd
Import numpy as np
Import matplotlib.pyplot as plt
Import seaborn as sns
From sklearn_selection Import train_test_split
From sklearn.preprocessing
Import labelEncoder
From tensorflow.keras.models Import model
From tensorflow.keras.layers import LSTM,Activation,Dense,Dropout,Input,Embedding
From tensorflow.keras.optimizers import RMSprop
From tensorflow.keras.preprocessing.text import tokenizer
From tensorflow.keras.Utils import to_categorical
```

```
From tensorflow.keras.callbacks import EarlyStopping
%matplotlib inline
Import csv

With open(' /spam.csv' ,' r' ) as csvfile;
reader=csv.reader( csvfile)
df=pd.read_csv(r' /spam.csv' ,encoding=' latin-1' )
df.head()
```

s.no	V1	V2	Unnamed 1	Unnamed 2	Unnamed 3	Unnamed 4
1	ham	Go until jurong point,crazy..Available only...	NaN	NaN	NaN	NaN
2	spam	Ok lar joking with u only...	NaN	NaN	NaN	NaN
3	ham	Free entry in 2 a weekly comp to win FA cup final.	NaN	NaN	NaN	NaN
4	ham	Nah I don' t think	NaN	NaN	NaN	NaN