PROGRAM NO: 01	Tensor Flow Library	PAEG NO:
DATE:		

AIM:

To write a Python Program wing tensor flow.

ALGORITHM:

Step 1: Start the Program

Step 2: open clob network

Step 3: Import tensorflow in relevant model

Step 4: Lead and normalize the mnist data

Step 5: Build model
- floten Input Image
- Add a dense layers with 128 newron (Relu activation)
- Add an output dense layer with 10 newrons

Step 6: we ddorm optimizer sparl categorious cross-entory los and accuraay metrics

Step 7: train for 5 epoths with both size of 32

Step 8: evaluate text data and print accuracy

Step 9: Stop the Process.

AIM:

To write a Python Program search the maximum and minimum element in a array using numpy.

ALGORITHM:

Step 1: Start the program

Step 2: open google colab network

Step 3: Import the numpy library

Step 4: Define an example array in the name of array

Step 5: we np. max() to find the maximum element in the array

Step 6: we np. min() to find the minimum element in the array

Step 7: Print out the maximum and minimum elements

Step 8: stop the program.

AIM:

To write a Python program using the concept of natural language Processing

ALGORITHM:

Step 1: Start the Program

Step 2: open colab notebook

Step 3: Import the chat and reflection class from nltk.chat.util that module

Step 4: Create a list of pair where each pair contains a regular expression pattern and set of possible response

Step 5: Create a chat Instance. the chat class with the defined/ pair and the reflection dictionary

Step 6: start conversation call in reverse method on the chat Instance to begin the conversation

Step 7: Stop the Process.

AIM:

To write a pandas module series to Python List

ALGORITHM:

Step 1: Start the Process

Step 2: open the google colab

Step 3: Import the pandas library as pd

Step 4: and then convert the pandas series itype

Step 5: Then convert the pandas series to python list using tolist() function

Step 6: And print the type of the tolist()

Step 7: Stop the Process.

PROGRAM NO: 05		
DATE:	Time Series Analysis	PAEG NO:

AIM:

To write a Python Program using the concept of time series analysis

ALGORITHM:

Step 1: Start the Program

Step 2: open google colab

Step 3: Import the pandas and matplot libraries.

Step 4: give same Input data as in a dictionary form

Step 5: then Create a dataframe and set Index and Print it!

Step 6: Create a plot with Size of/10.6

Step 7: given the x Label and y label and Print the plot

Step 8: stop the Process.

PROGRAM NO: 06	Clustering Algorithm	
DATE:		PAEG NO:

AIM:

To write the Python Program using the clustering algorithm.

ALGORITHM:

Step 1: Start the Program.

Step 2: open google colab.

Step 3: Import the numpy and the matplot libraries

Step 4: Then Import make-blots from SK Learn dataset.

Step 5: Then assign the example of 500 points

Step 6: Assign the plot in a fig variable

Step 7: Create a Scatter plot and Print it

Step 8: Stop the Program.

AIM:

To write a Python Program using the concept of Performance learning

ALGORITHM:

Step 1: Start the Program

Step 2: open google clob

Step 3: Impart the random Egym libraries

Step 4: Create a environment called env & assign the valu

Step 5: Create a for loops a variable with 10 episode

Step 6: Create a while loop to guide random choice & the record

Step 7: Print the epider & score

Step 8: stop the Process.

PROGRAM NO: 08	Keras Model	PAEG NO:
DATE:		

AIM: To write a python program to find exponents & big nometric problem using scipy.

ALGORITHM:

Step 1: Start the program

Step 2: open google colab

Step 3: Import keras sequential dense and activation

step 4: rel (Rectified linear unit) is a non linear function

step 5: used to rectify activation function.

step 6: Compile model

step 7: Stop the program.

PROGRAM NO: 09 DATE:	Finding exponents and trigonometric Problems using Scipy	PAEG NO:

AIM:

To write a Python Program to find exponents & trignonometric Problems using scipy.

ALGORITHM:

Step 1: Start the Program

Step 2: open google colab

Step 3: Import the numby & Scipy special libraries

Step 4: Create a sin value & cos value & tan value.

Step 5: And Print the values of sin(pi/2) & sin(pi/3) & sin(pi/4)

Step 6: And Create a sin value & a cos_value & tan_value

Step 7: And Print three value

Step 8: Stop the Process.