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Building a NN model with tensorflow

AIM- Write a program to implement a tensorflow of NN model

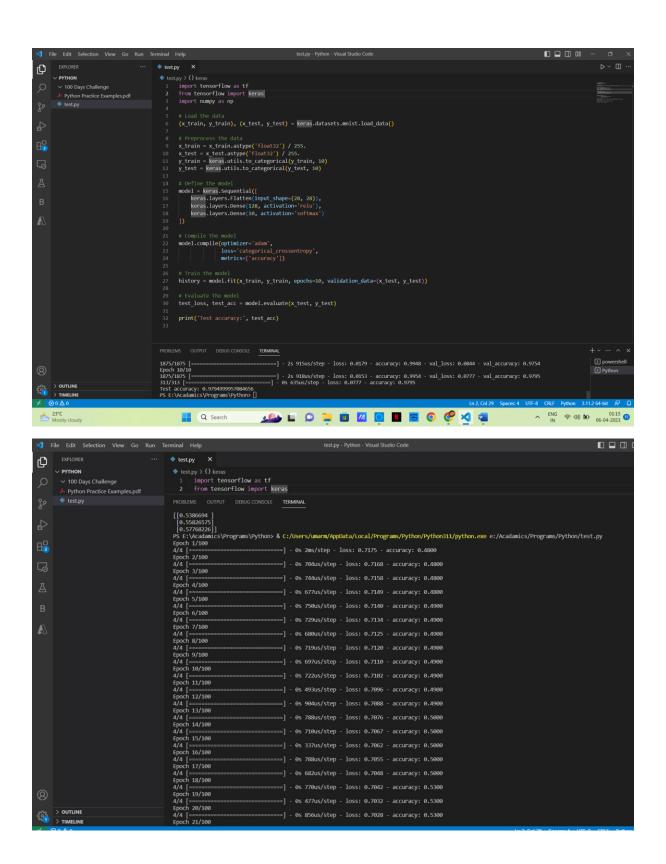
Theory-

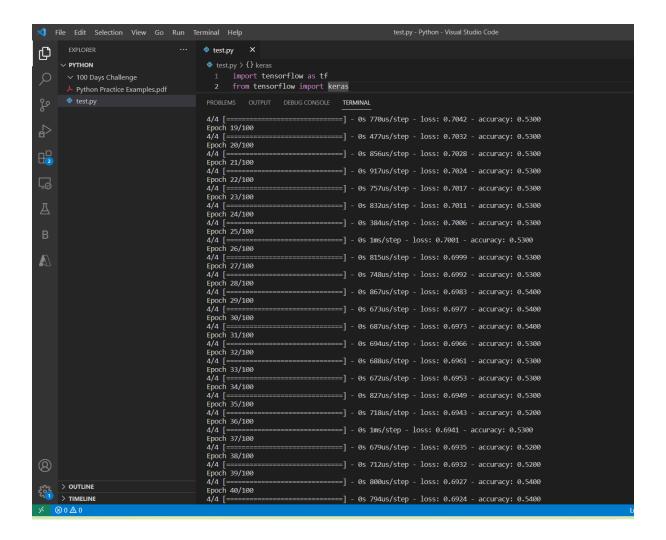
TensorFlow is a popular open-source framework for building and deploying machine learning models. When building a neural network model in TensorFlow, there are several steps that need to be followed. First, the input data needs to be preprocessed and prepared for training. This can involve transforming the data into a format suitable for the model, scaling the features, and splitting the data into training and testing sets.

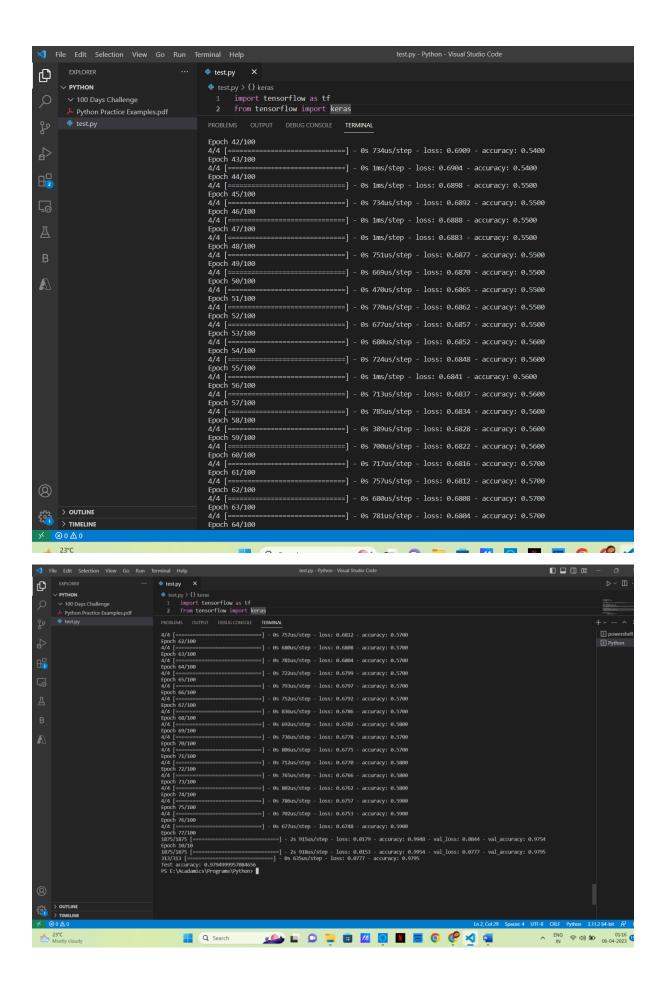
Next, the architecture of the neural network needs to be defined. This involves specifying the number of layers, the number of neurons in each layer, and the activation functions used. The parameters of the model are then initialized randomly, and the model is trained using an optimization algorithm such as stochastic gradient descent.

Once training is complete, the model can be evaluated on the test set to assess its performance. In addition, the model can be used to make predictions on new data. TensorFlow provides a range of tools and APIs to aid in these tasks, as well as to deploy the models in production environments.

Program	۱-
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Conclusion -

Here in this practical we have successfully performed program on NN model using tensorflow