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## Tensorflow implementation of logistic regression.

AIM- Write a program to implement a tensorflow of logistic regression

## Theory-

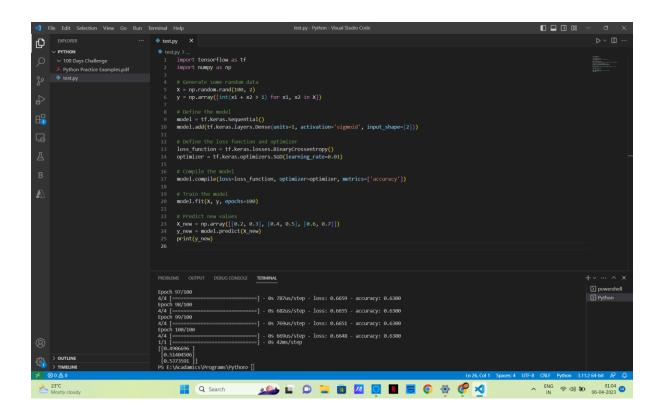
Tensorflow is a popular open-source library used for machine learning and deep learning applications. It has become an industry standard for building and deploying complex neural networks.

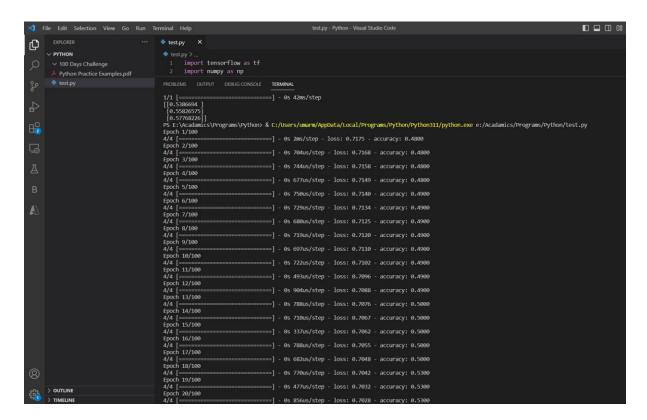
Logistic regression is a commonly used statistical method for binary classification. It involves predicting the probability of an outcome being true or false based on input variables. TensorFlow provides a straightforward implementation of logistic regression using its computational graph and loss function optimization capabilities.

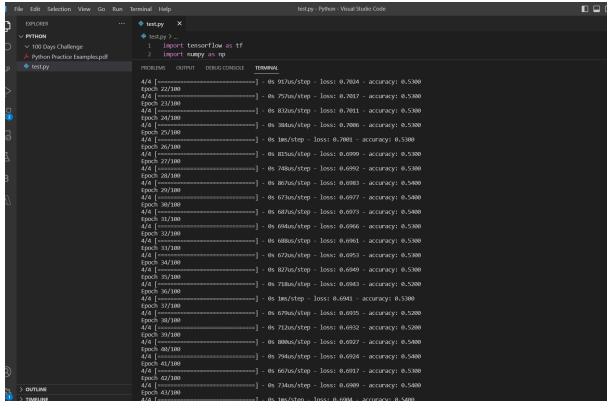
The basic steps involved in the TensorFlow implementation of logistic regression are to define the input features, create the model, set up the loss function, optimize the loss using gradient descent, and train the model on the dataset.

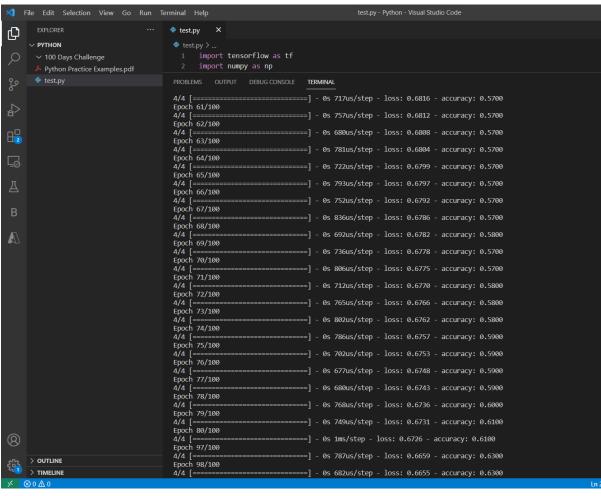
TensorFlow offers extensive support for building and training machine learning models, and its implementation of logistic regression is a prime example. The versatility and flexibility of TensorFlow make it an ideal tool for all kinds of machine learning and deep learning applications.

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## **Conclusion-**

Here in this practical we have successfully performed program on logistic regression using tensorflow