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DNN

Backword Propagation using tensorflow

AIM- write a program in python for Backword propagation using tensorflow

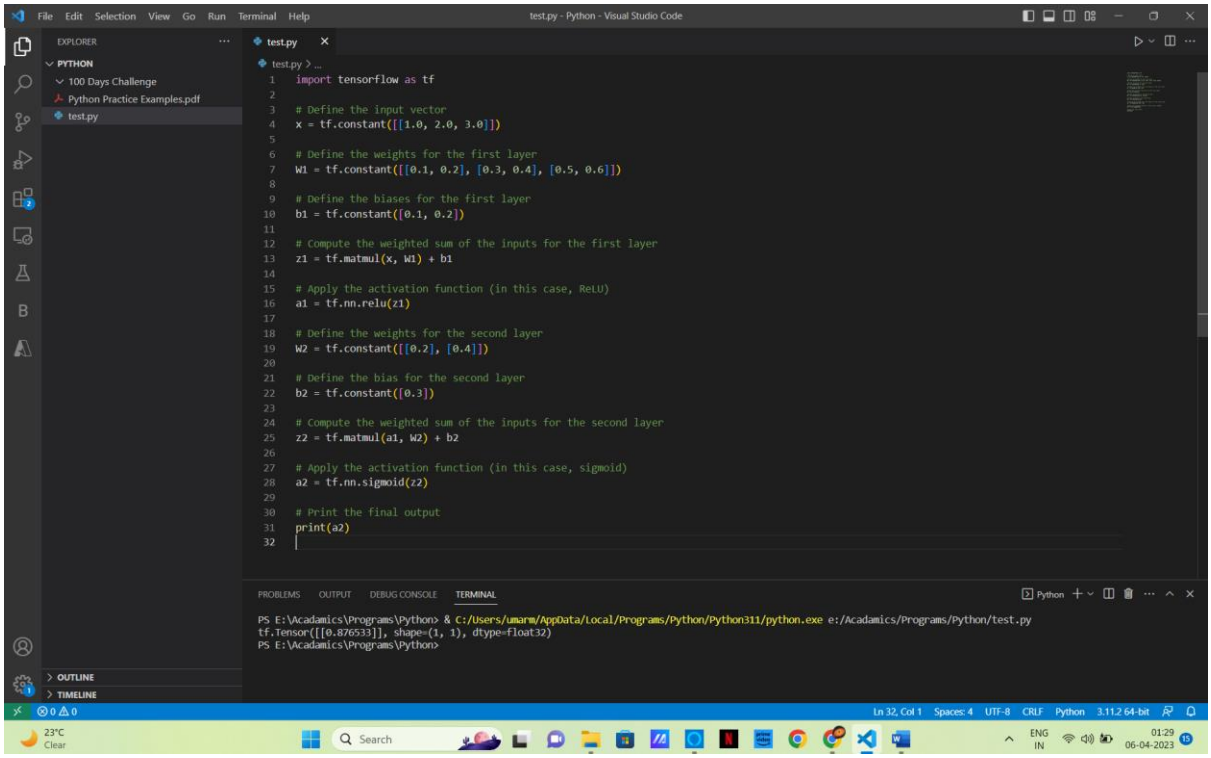
Theory-

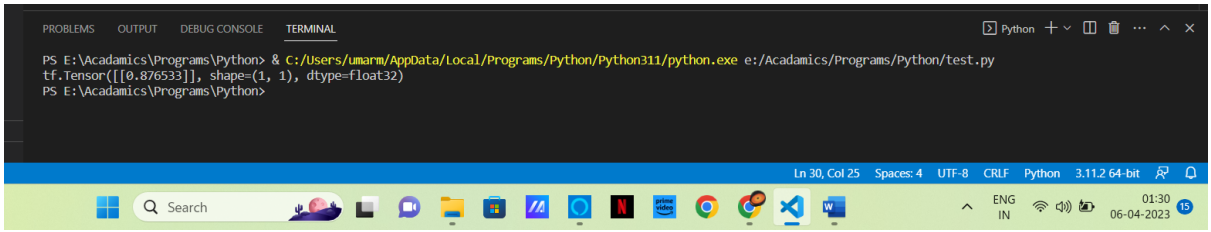
Backward propagation is a key concept in artificial neural networks and is used to calculate the gradients of the error with respect to the weights and biases of the network. The process involves working backwards from the output layer to the input layer of the network, using the chain rule of calculus to calculate the derivative of the error with respect to each weight and bias.

To implement backward propagation, we first calculate the error between the actual outputs and the desired outputs. Then, we calculate the partial derivative of the error with respect to each weight and bias at each layer of the network. We use these partial derivatives to update the weights and biases in the network, using a gradient descent algorithm to move towards the optimal values.

In summary, backward propagation is a fundamental component of machine learning algorithms, allowing us to train neural networks to accurately predict output values from input data.

Program-





Conclusion – Here in this practical we have performed program for Backword propagation using tensorflow