What is tensorflow

It is a machine learning framework used to build models, like NLP natural language processing , computer vision , face recognition.

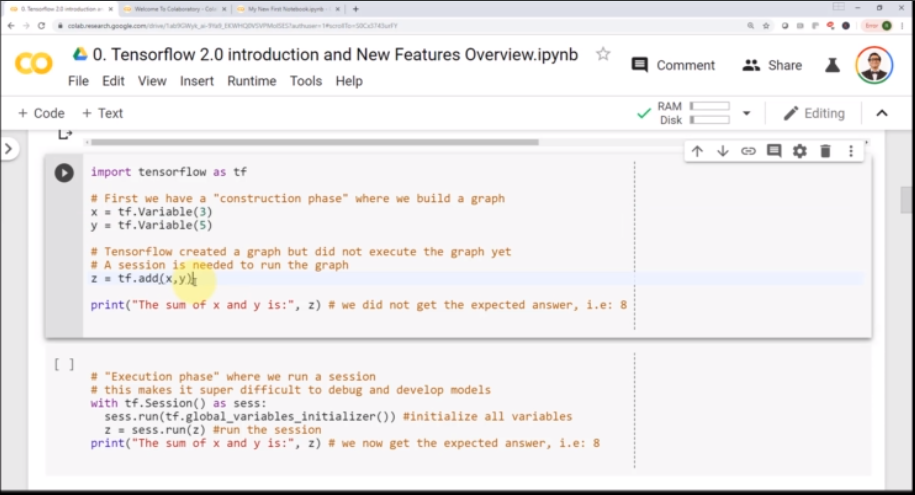
It is developed by google in 2015 by google brain team

GPU and TPU

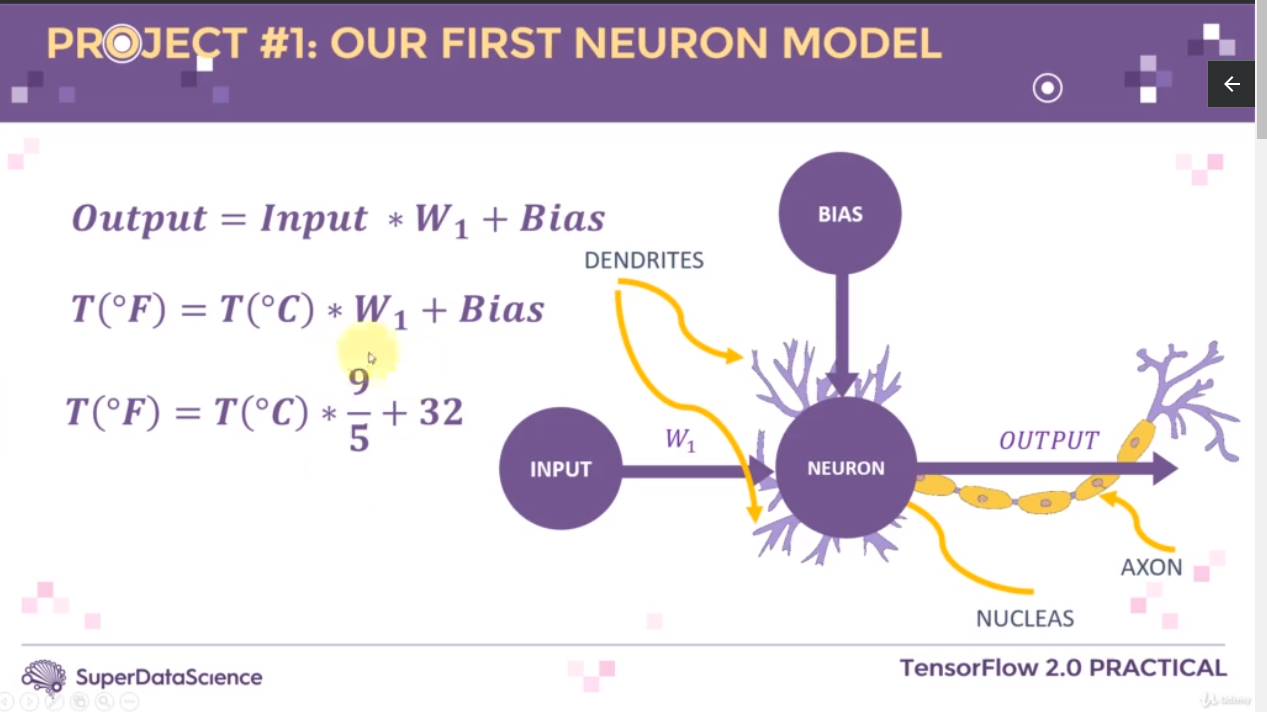
Graphics Processing unit – used in CAD drawing, video editing.

TPU –

Eager Execution – we can execute code line by line , in Tensor flow 1 we had to initiate a session to print or analyse the variables but from tensor flow 2 onwards we do not need it.



Keras – default API to interact with tensorflow



Regression

Regression works by predicting value of one variable Y based on another variable X , where X is called Independent variable and Y is called dependent variable.