



# Programming Assignment FAQ

Please note that when you are working on the programming exercise you will find comments that say "# GRADED FUNCTION: functionName". Do not edit that comment. The function in that code block will be graded.

## 1) What is a Jupyter notebook?

A Jupyter notebook is a document that allows you to have executable code and text in the same web-page. With Jupyter notebooks you do not have to download anything on your computer to do the programming exercises. Everything is provided for you online. You will be completing the exercise as you scroll down the webpage without having to jump between different files.

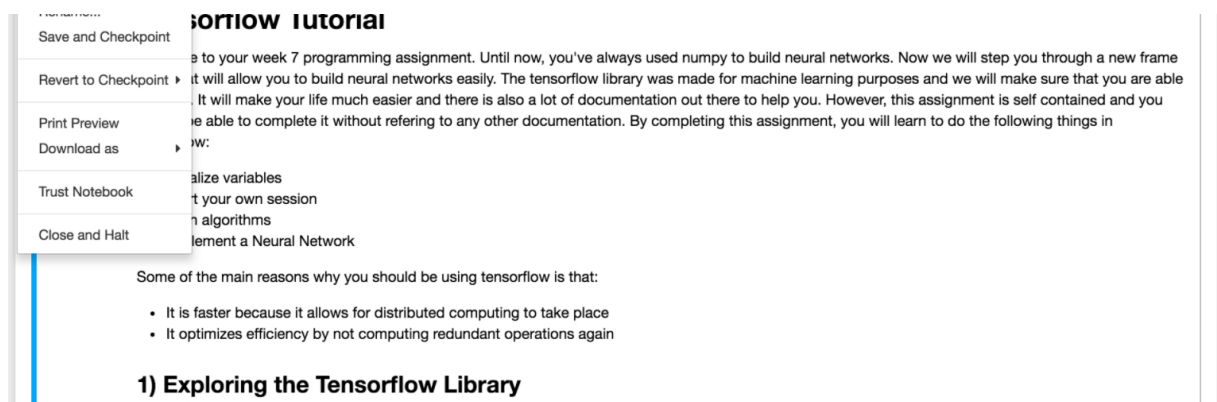
## 2) What is the coursera hub?

The coursera hub is the workspace which contains the notebook, helper files, data sets, and images. To go to the hub, you should first be in the notebook:

The screenshot shows the Coursera Jupyter Notebook interface. At the top, the Coursera logo is on the left, and the notebook title "Tensorflow Tutorial" is in the center, followed by "Last Checkpoint: 44 minutes ago (autosaved)". On the right, there are links for "Control Panel" and "Logout". Below this is a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help". To the right of the menu bar is a "Not Trusted" warning and a "Python 3" version indicator. Below the menu bar is a toolbar with icons for file operations, cell navigation, and execution. A "Submit Assignment" button is visible on the right. The main content area displays the "Tensorflow Tutorial" notebook. It starts with a heading "Tensorflow Tutorial" and a paragraph: "Welcome to your week 7 programming assignment. Until now, you've always used numpy to build neural networks. Now we will step you through a new frame work that will allow you to build neural networks easily. The tensorflow library was made for machine learning purposes and we will make sure that you are able to use it. It will make your life much easier and there is also a lot of documentation out there to help you. However, this assignment is self contained and you should be able to complete it without refering to any other documentation. By completing this assignment, you will learn to do the following things in tensorflow:". This is followed by a bulleted list: "• Initialize variables", "• Start your own session", "• Train algorithms", and "• Implement a Neural Network". Below the list is a paragraph: "Some of the main reasons why you should be using tensorflow is that:", followed by another bulleted list: "• It is faster because it allows for distributed computing to take place" and "• It optimizes efficiency by not computing redundant operations again". At the bottom of the visible content, the heading "1) Exploring the Tensorflow Library" is shown.

Click on File ==> Open as shown below:

This screenshot shows the same Coursera Jupyter Notebook interface as the previous one, but with the "File" menu open. The menu options visible are "New Notebook", "Open...", "Make a Copy...", and "Rename". The rest of the interface, including the toolbar and the "Submit Assignment" button, remains the same.



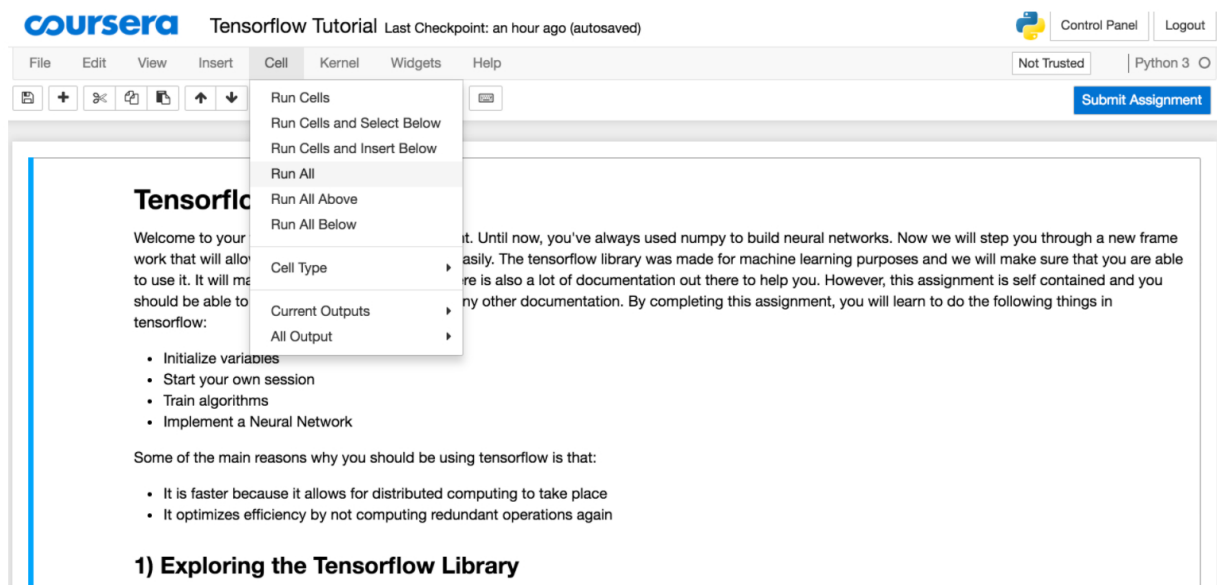
This will lead you to an environment that has all your programming exercises and datasets. You should go there to check out any helper functions that we have provided for you.

## 3) How do I submit my assignment?

To submit the assignment, click on the blue button in the above image labelled "Submit Assignment."

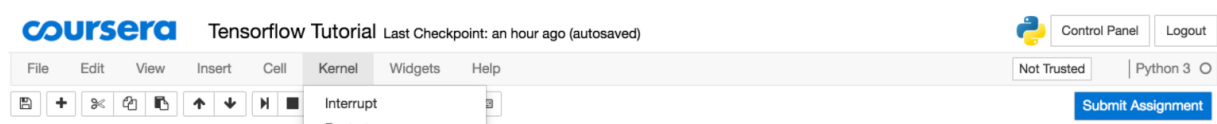
## 4) How do I run a cell?

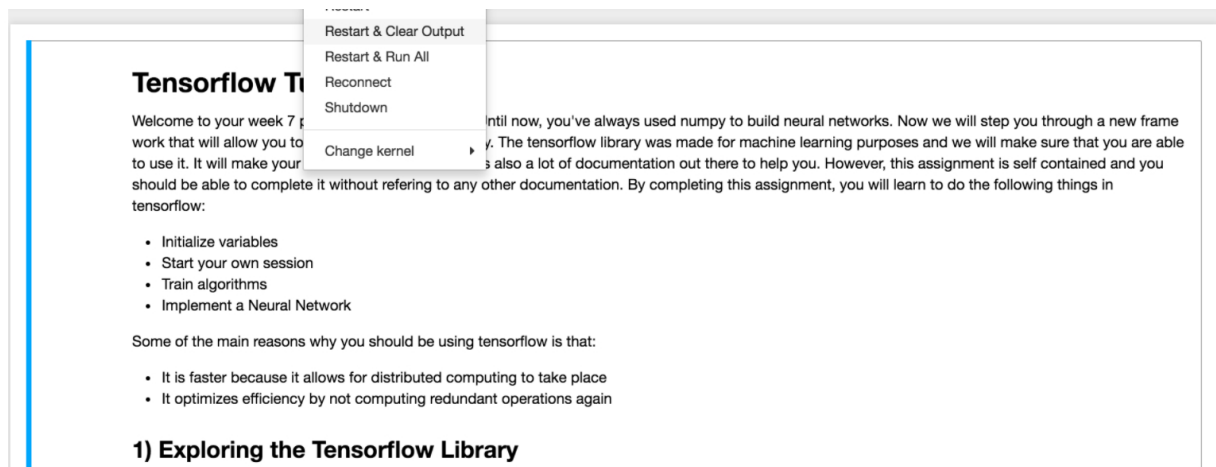
To run a cell, click on the cell and press **Shift & Enter**. You could also run the cell (or cells) by going to Cell and selecting one of the options:



## 5) What is a kernel?

You could think of the kernel as the core of the Jupyter notebook's operating system. Sometimes if the notebook blocks or if you want to clear all the variables and start all over again, rather than quitting the notebook and opening it again, you could:





Restart the kernel and clear the output if you accidentally end up in some sort of infinite loop.

## 6) Why do I get different results every time I run the same cell?

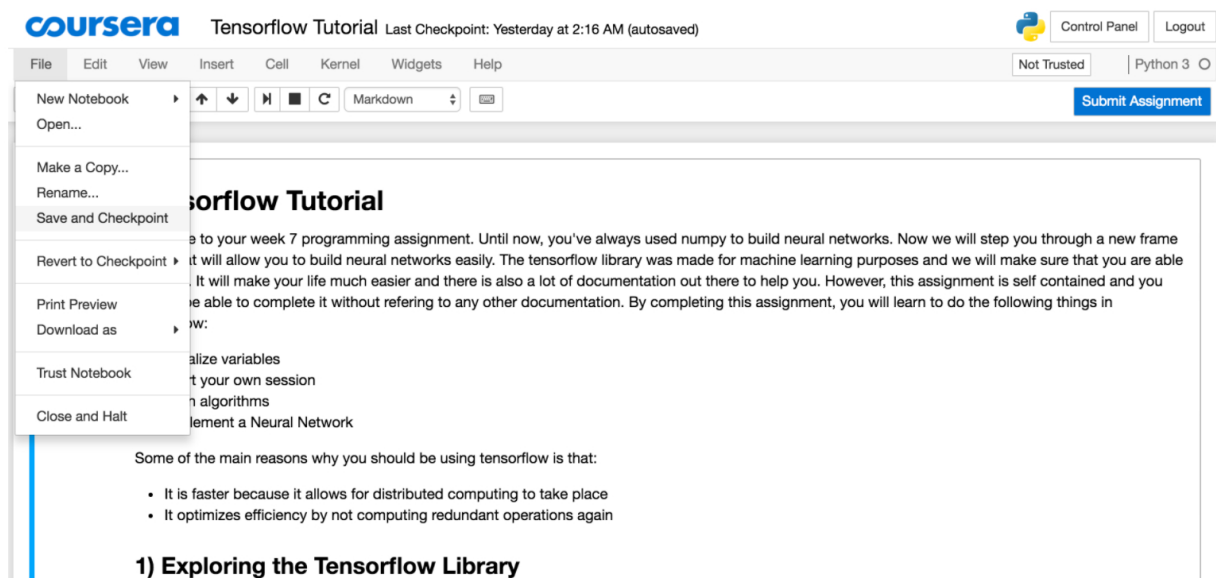
When you run a cell that updates some variable (e.g  $x: x+1$ ), you will get different results for  $x$  as it keeps incrementing. Make sure you are not modifying your existing variables.

## 7) I got stuck on an assignment; what do I do?

You can post questions and get answers to them from dedicated Mentors in our [Discourse](#) community. Discuss all your queries over there. Please be sure to abide by the course Honor Code.

## 8) How do I save my progress?

Click on File ==> Save and Checkpoint



## 9) What should I do if my jupyter notebook

## 5) what should I do if my jupyter notebook froze?

Just restart the kernel by clicking on Kernel ==> Restart.

✓ Complete

[Go to next item](#)

