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Python

An Introduction

What is Python?

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- Interpreted high-level programming language for general purpose programming
- Created by **Guido van Rossum**
- First released in 1991
- Has a design philosophy that emphasizes code readability
- It supports multiple programming paradigms, including object- oriented, functional and procedural, and has a large and comprehensive standard library

Why learn Python for Data Science?

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- General Purpose interpreted language
- Easy to learn
- Popular among the top 10 programming languages
- Has Libraries for Maths and Machine Learning

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Data Science Libraries in Python

- SciPy
  - NumPy
  - Matplotlib
  - Pandas
- scikit-learn
- Keras
- TensorFlow

SciPy

- An ecosystem of Python libraries for mathematics, science and engineering
- Comprises of
  - **Numpy**: Supports working with arrays
  - **Matplotlib**: Visualization
  - **Pandas**: Supports organizing and analysing data

Scikit-learn

- Built on SciPy
- Implements Supervised Learning and Unsupervised Learning Algorithms
- Scikit-learn is usable commercially under the BSD license

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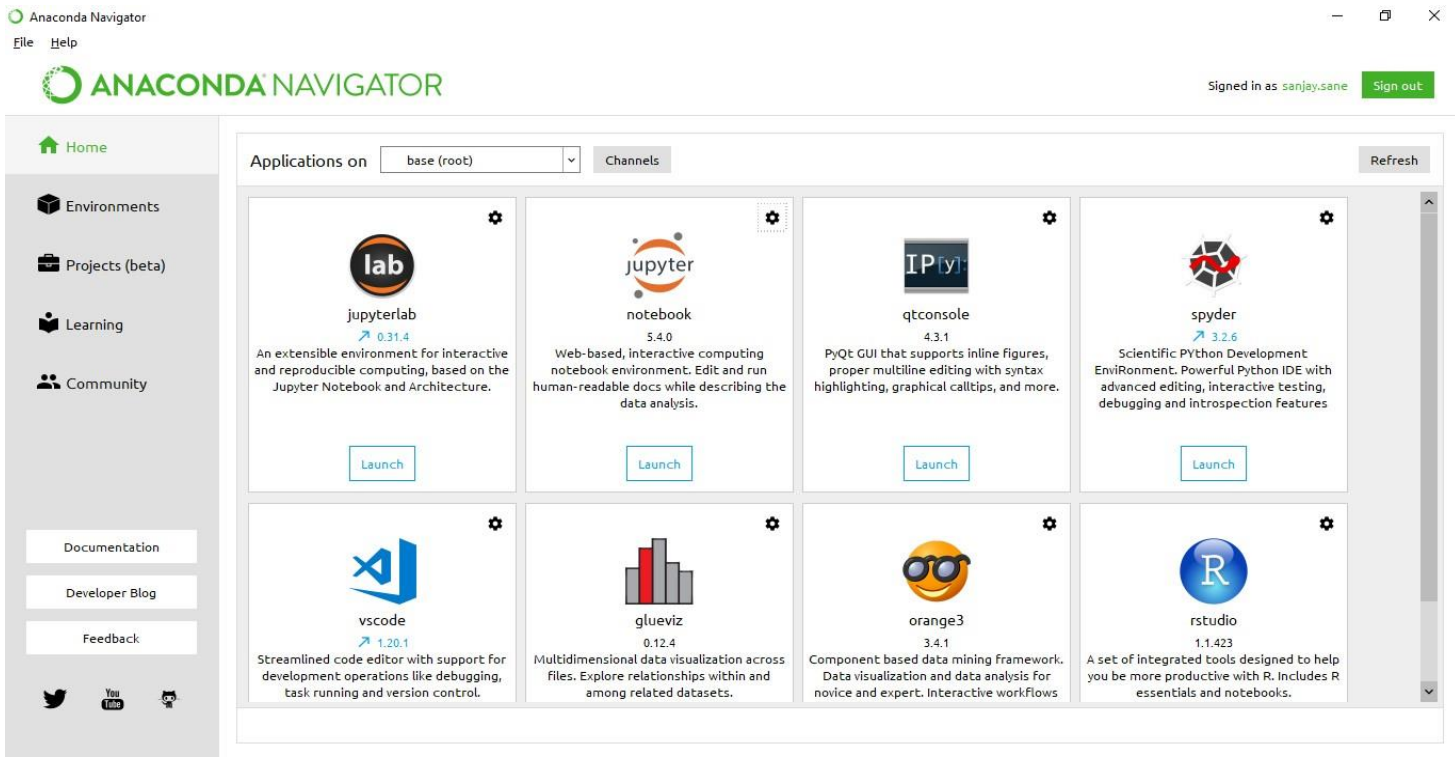
Anaconda Installation

- Anaconda platform by Anaconda Inc., provides default installation of all the basic libraries and also machine learning library scikit-learn
- Some of its elements which we are going to use are:
  - Spyder IDE
  - VS Code
  - Jupyter Notebook
  - IPython

Anaconda Navigator

- Anaconda Navigator is a desktop graphical user interface included in Anaconda that allows you to launch applications and easily manage conda packages, environments and channels without the need to use command line commands.
- It provides you the links to the installed Spyder, Jupyter and also VS Code



Spyder IDE

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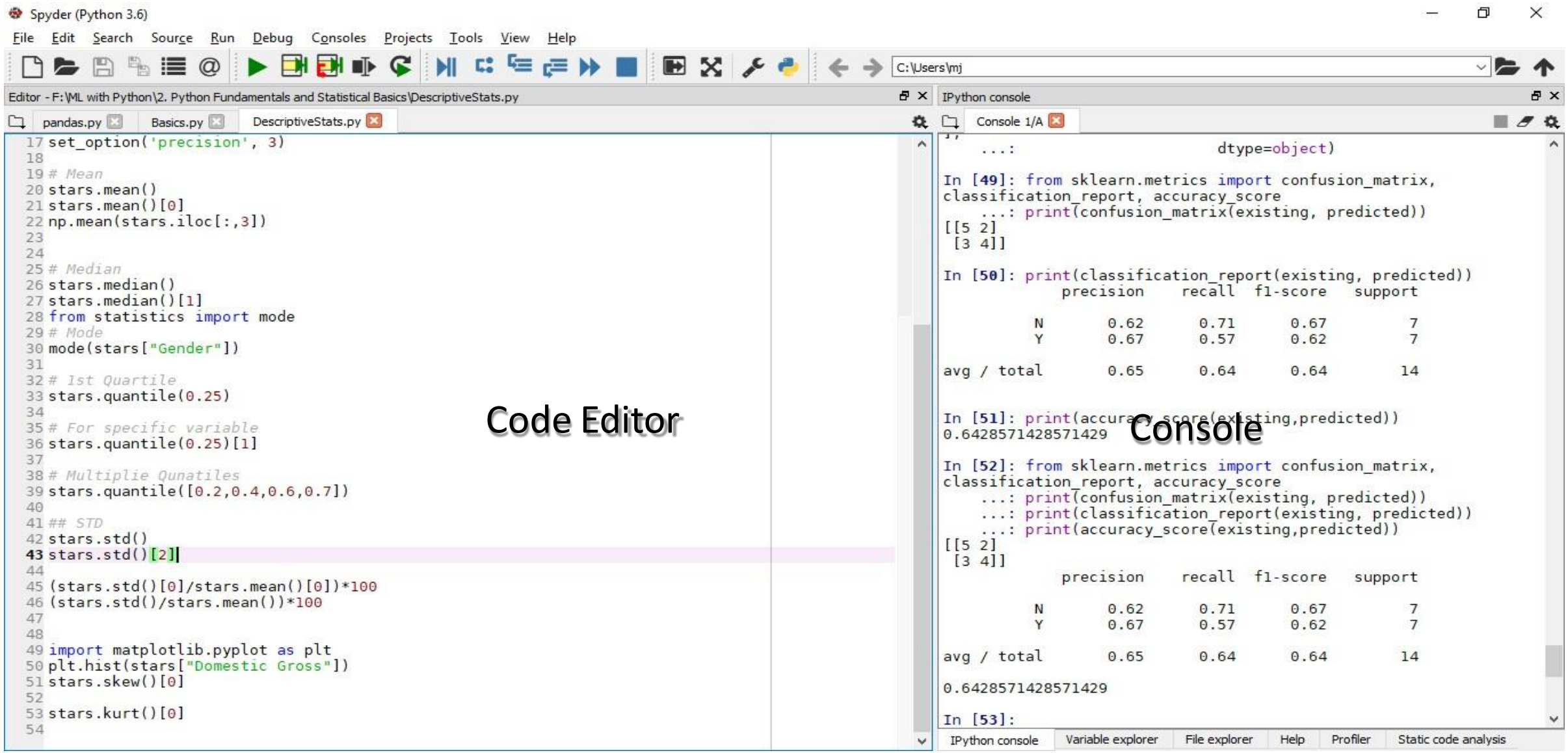

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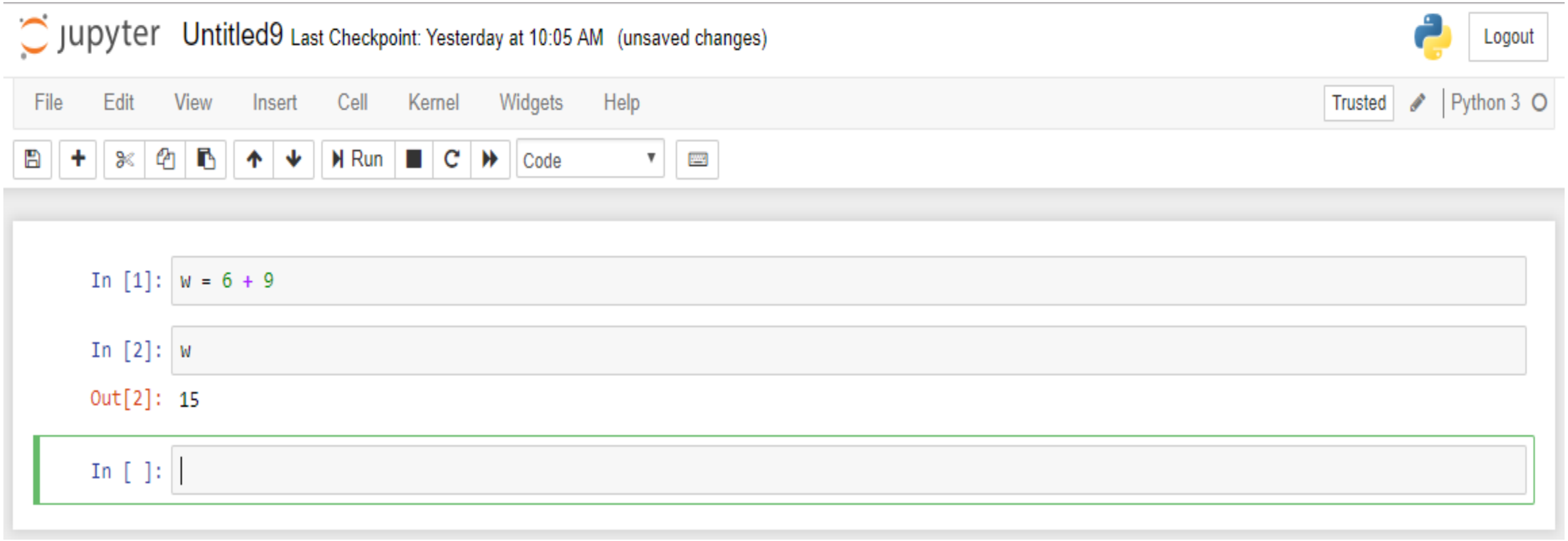
Jupyter Notebook



Thank You