

## 4.1 Intro to Programming for Data Analysts

### 2. Write a few sentences on why Python is so popular amongst data analysts

Python is a popular programming tool in data analysis due to its ability to successfully manipulate big data. It is easy to learn and has great community. Also, python is flexible and scalable and can be used in numerous fields and contexts. It also provides opportunity for data visualisation. Finally, Python has a large number of libraries that has made analysis easier.

### 3. After doing some research, name the 5 top companies in the world that use Python (either as a tool for software engineering or for analytics).

Python is employed by Intel, IBM, NASA, Pixar, Netflix, Facebook, JP Morgan Chase, Spotify, and a number of other massive companies.

### 4. For each of the following scenarios, explain what tool you would use and why.

a. You have a small data set that needs some quick tweaks and minor analysis. You'll need to filter some columns and make a quick chart.

Excel is excellent for analysing for small data and generating basic charts

b. You need to retrieve some portion of data from a very large database.

SQL would be employed as it is a querying language for communicating with database.

c. You have a dataset with 15,000,000 rows and 350 columns that needs to be sorted and prepared for advanced analysis.

Python would be most best for this task as it is capable of cleaning, exploration and manipulation of big data.

### 6. Set up the environment variables on your computer and copy them into your document together with your answers to steps 2 through 4.

a. C:\Users\aibee\anaconda3\Scripts

b. C:\Users\aibee\anaconda3\Library\bin

8. Take a screenshot of the page that opens in your browser upon launching Jupyter.

jupyter

QuitLogout

FilesRunningClusters

Select items to perform actions on them.

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<input type="checkbox"/>	📁 git	a year ago	
<input type="checkbox"/>	📁 Movies	a year ago	
<input type="checkbox"/>	📁 Music	a year ago	
<input type="checkbox"/>	📁 my-app	2 years ago	
<input type="checkbox"/>	📁 opt	a year ago	
<input type="checkbox"/>	📁 Parallels	a year ago	
<input type="checkbox"/>	📁 Pictures	a year ago	
<input type="checkbox"/>	📁 Postman	3 years ago	
<input type="checkbox"/>	📁 Projects	2 years ago	
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