Session Plan: New to Python? - Get Started

Session Agenda:

- Getting started with programming in Python
- Introduction to Pandas Dataframes

Prerequisites for learners:

- A working laptop/desktop computer with Anaconda Navigator installed. Refer to the following videos on instructions for downloading anaconda navigator.
- For Windows: https://bit.ly/2T4wr62
- For MacOs: https://www.youtube.com/watch?v=iPsOCj_wKvY

Structure of the Session:

Duration	Topic	Details
5 min	Explain the session structure	Explanation of the agenda and learning objectives of the session. It should be stated clearly that this is a session for learners that are facing issues with getting started in Python programming.
10 min	Anaconda Installation and Opening Jupyter Notebooks QnA	Clear doubts regarding the download and installation of Anaconda Navigator and opening a downloaded notebook in Jupyter, if the reference material was not helpful.
30 min	Fundamental Python Programming	• Start with the print() function • Introduce various data types - string, int and float • Declaring a variable • Arithmetic operations on/with variables • Conditional statements • List of variables, adding elements to a list

30 min	Pandas Dataframes	● Creating dataframes using lists ● Adding a new column to the dataframe ● Looping statements to generate dynamic output ● Loading a dataset in Python ● Viewing the loaded dataset
40 min	QnA	Use this time to clarify doubts around basic python and working with pandas dataframes, loading data in Jupyter.
5 min	Summary of the session	Summary of the session with the key takeaways

Important points to note:

- These timelines are rough guidelines. Please ensure that the session is interactive and try to address all the beginner queries on priority.
- Spend time on writing the code and explaining the syntax. Please do not use a pre-run notebook.
- The reference notebook has some deliberate coding errors to help you explain debugging to the learners