

A 5-day Python workshop timeline:

Day 1: Python Fundamentals

- Introduction to Python and setting up the environment.
- Basics: Variables, data types, conditional statements, loops.
- Mini-project: Simple calculator.

Day 2: Data Structures

- Lists, tuples, dictionaries, and sets.
- Defining and using functions, parameters, and return values.
- Practical exercises: Create a contact book.

Day 3: Data Analysis with Libraries

- Data cleaning, manipulation, and visualization.
- Introduction to Pandas, NumPy, and Matplotlib.
- Lambda functions and scope (local/global variables).
- Hands-on project: Analyze and visualize a dataset (e.g., sales or employee data).

Day 4: Data Visualization

- Data Visualization using Pandas, NumPy, and Matplotlib.
- Hands-on project: Dataset from Day 3 only.

Day 5: File and Error Handling

- Reading/writing files (text and CSV).
 - Error handling (try/except).
 - Mini-project: Student marks recorder.
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