PYTHON INTERACTIVE BOOTCAMP COURSE OUTLINE

By Engr Ahsan Inam

Week 1 Introduction to Python Basics

Day	Topic
Monday	Introduction to Python, installation, and setting up an IDE (Integrated Development Environment) like Visual Studio Code.Variables ,data types, and basic input/output.
Tuesday	Practice and Discussion with Trainer
Wednesday	Conditional statements (if, elif, else).Loops (for and while) and basic control flow.
Thursday	Practice and Discussion with Trainer
Friday	Lists and list manipulation.Functions and modular programming.
Saturday	Practice and Discussion with Trainer
Sunday	Weekly Evaluation

Week 2 Introduction to Python Basics

Day	Topic
Monday	String manipulation and formatting. Tuples and unpacking.
Tuesday	Practice and Discussion with Trainer
Wednesday	Dictionaries and sets.
Thursday	Practice and Discussion with Trainer
Friday	File handling (reading/writing files). Exception handling and error management.
Saturday	Practice and Discussion with Trainer
Sunday	Weekly Evaluation

Week 3 : Advanced Python Concepts

Day	Topic
Monday	Basic introduction to object-oriented programming (classes and objects).
Tuesday	Practice and Discussion with Trainer
Wednesday	More on object-oriented programming (inheritance, encapsulation, polymorphism).
Thursday	Practice and Discussion with Trainer
Friday	Modules, packages, and importing external libraries.
Saturday	Practice and Discussion with Trainer
Sunday	Weekly Evaluation

Week 4 : GUI Development

Day	Topic
Monday	Introduction to GUI (Graphical User Interfaces) using libraries like Tkinter. Deep dive into Tkinter for GUI development.
Tuesday	Practice and Discussion with Trainer
Wednesday	Creating windows, buttons, labels, and handling user input.
Thursday	Practice and Discussion with Trainer
Friday	Layout management and organizing GUI elements.
Saturday	Practice and Discussion with Trainer
Sunday	Layout management and organizing GUI elements.

Week 5 : Developing a Desktop Application

Day	Topic
Monday	Advanced GUI components (dropdowns, checkboxes, radio buttons).
Tuesday	Practice and Discussion with Trainer
Wednesday	Event handling and binding actions to GUI components.
Thursday	Practice and Discussion with Trainer
Friday	Building a simple application (e.g., a to-do list manager) using Tkinter.
Saturday	Practice and Discussion with Trainer
Sunday	Weekly Evaluation

Week 6 : Development Tools, Project and Interviews

Day	Topic
Monday	Introduction to packaging and distributing Python applications.
Tuesday	Practice and Discussion with Trainer
Wednesday	Testing and debugging your application.
Thursday	Practice and Discussion with Trainer
Friday	Project Evaluation
Saturday	Individual Project
Sunday	Interviews for Internship

Week 7 : How To Turn This Skill Into an Earning Stream

Day	Topic
Monday	Job Opportunities and What is Freelancing
Tuesday	Practice and Discussion with Trainer
Wednesday	Freelancing on Fiverr and Upwork
Thursday	Practice and Discussion with Trainer
Friday	Session on What Career Paths and be Opted Now
Saturday	Practice and Discussion with Trainer
Sunday	Closing Session