**Python Programming**

**Month 1: Introduction to Python Basics**

Week 1: Introduction to Programming and Python

* + Overview of programming concepts
  + Installing Python and an IDE
  + First Python program

Week 2-3: Python Basics

* + Variables, data types, and operators
  + Control flow (if statements, loops)
  + Functions and basic input/output

Week 4-5: Data Structures in Python

* + Lists, tuples, and dictionaries
  + String manipulation
  + Basic file handling

Week 6: Practical Application

* + Simple programming exercises and small projects

**Month 2: Intermediate Python Concepts and Project Work**

Week 1-2: Object-Oriented Programming (OOP) in Python

* + Introduction to classes and objects
  + Encapsulation, inheritance, and polymorphism

Week 3-4: Python Libraries and Frameworks

* + Overview of popular libraries (e.g., NumPy, Pandas)
  + Introduction to web development with Flask

Week 5-6: Final Project and Advanced Topics

* + Guided final project work
  + Introduction to more advanced Python topics (e.g., decorators, generators)