



POWER PYTHON LIVE 17 CLASSES

1 Introduction to Programming

- Course path & Learning journey
- Exploring Dashboard
- Programming & Coding
- Real-life Applications
- Programming languages
- Python - Snake or What?
- FunAI Show In
- Print it Out!
- Work it Out!

2

Beginning with Python

- Review
- The print Statement
- Arithmetic Operators
- Data types
- Variables
- Getting Input!
- The Pythagoras theorem
- Work it Out!

3 PROJECT - BMI Calculator

- Review
- What is BMI?
- Analysis
- Planning & Design
- Execution
- Testing
- Connecting with WebApp
- Work it Out!



6 Loops

- Review
- Canvas Game
- Chase the Maze
- What's your name?
- Types of loops
- Even & Odd Numbers
- Fizz Buzz 2.0
- Multiplication tables
- Other loop blocks
- Work it Out!

5

PROJECT- The Report Card

- Review
- Math behind grades
- Analysis
- Planning & Design
- Execution
- Testing
- Connecting with WebApp
- Work it Out!

4 Conditionals

- Review
- Blind Bird Game
- Fizz Buzz
- Driving Cars
- Control Flow
- Work it Out!



7 PROJECT - Hi or Lo - On the Go

- Review
- Concept of Hi-Lo
- Analysis
- Planning & Design
- Execution
- Testing
- Connecting with WebApp
- Work it Out!



8

Nested Loops and Strings

- Review
- A Word in Book
- Throwing dices
- Multiple Multiplication Tables
- Nested Loops
- Break & Continue
- Reverse a number
- Strings
- Work it Out!

9 A Pattern Designer

- Review
- Fold, cut and Open Activity
- Patterns in real life
- Designing Patterns
- Right angled triangle
- Square, Pyramid, Diamond
- Pattern generator WebApp
- Work it Out!



11 Functions

- Review
- Composer Game
- Intuition of functions
- Use & Implementation
- Return & Conditional Return
- Scope of variables
- Local & Global variables
- HCF & LCM Calculator
- Work it Out!



10 Data Structures

- Review
- Intuition of Data Structures
- Types
- List - Use & Implementation
- Dictionary - Use & Implementation
- Tuple
- Sets
- Phone Directory Project
- Work it Out!



12 PROJECT- Exchange your money

- Review
- Currencies and Conversion
- Analysis
- Planning & Design
- Execution
- Testing
- Connecting with WebApp
- Work it Out!



13

Recursion

- Review
- Intuition of Recursion
- Counting numbers
- Factorial problem
- Why & Why not Recursion
- Even numbers
- Work it Out!



14 PROJECT - One shot Grill

- Review
- Working of a Quiz
- Analysis
- Planning & Design
- Execution
- Testing
- Connecting with WebApp
- Work it Out!



16 Sorting and Types

- Review
- Bubble Sort
- Selection sort
- Counting Sort
- Work it Out!



15 Searching and Types

- Review
- What is Searching?
- Types
- Linear Search
- Complexity
- Binary search
- Work it out!



17 PROJECT- The mystery Message

- Review
- Concept of Encryption
- Understanding Decryption
- Analysis
- Planning & Design
- Execution & Testing
- Connecting with WebApp
- Future Guidance

