Chapter 1 – where we are knocking the door of wisdom

Compiler vs Interpreter

Semantic Versioning -> major - minor - patch version

String Len and index

String 44 Methods

Comments -> one-line and multi-line

5 Rules of naming variables.

Type casting

Chapter2 – where Hardship comes our way

An introduction to numbers and different number systems.

Working with binary

Numbers and different methods

Operators(comparison6, assignment14, bitwise6, arithmetic7)

Precedence order

Complex and Floating point numbers

Chapter3 – Where we start making sense of sequences

Sequences in python

List and it's methods – Three Musketeers : filter , reduce, map

Sequence indexing - tuple and it's different way of living

Chapter4 – where delusion of power overwhelms us

If statement – statement? Expression? What's the difference?

Set and it's methods

Object references, mutability, references

Datetime library

Chapter5 – Where automation comes to the rescue

For loop

Zip function

Itertools library

Ord and Chr functions

Chapter6 – where we are spinning in circles or at least we think

Dictionary and it's methods

Default Dict

Ordered Dict

While loop

Chapter7 – Where we wanna store everything

Work with Txt files

Json file - Csv file – Import ... as

Chapter8 – where additional help is needed.

Math, random, Time, collections

Encode vs decode

Functions introduction

NameSpace and Scope

Chapter9 – Where everyone bets on us

Functions

Type hinting

Match / Case

Chapter10 – First visit with the last boss

OOP

Object and class in python

Class and instance variables

Class and static and instance methods

Inheritance

Single level and multi-level inheritance

Chapter11 – The last Dance

MRO

Method overloading

Operator overriding

Polymorphism

Encapsulation