

plan

November 23, 2018

1. Introduction
 - meaning of programming
 - simple computer representation
 - about programming languages
 - python among languages
2. Data Types - start
 - numbers
3. Arithmetic operations
4. Data Types - continue basic types
 - string
 - boolean
5. Comparisons
6. Boolean operations
7. Variables
 - what is it
 - why should we use it
8. Control Flow
 - if
 - else
 - elif
9. Data Types - complex
 - list
 - tuple
 - dictionary
10. Cycles
 - while
 - for
11. Debugging
 - prints

- debugger
 - duck
12. Working with strings
 13. re
 14. Input and Output
 - stdin, stderr, stdout
 - work with files
 - context manager
 15. Try/Except
 16. Decomposition - start
 - wtf
 - basics
 17. Functions
 - definition
 - scopes
 - recursion
 - memoization
 18. Generators
 - essence
 - creation
 19. Decomposition - modules
 - what is it
 - imports
 20. Decomposition - classes
 - object oriented programming principles
 - definition
 21. Basics of sys module
 22. Basic pandas
 23. Plotting
 - matplotlib
 - seaborn
 24. argparse || sklearn || image processing || audio processing