



Module Checklist

Programming with Python

By TechWorld with Nana

Video Overview



- ★ Introduction to Python
- ★ Install Python & Local Setup
- ★ Our first program
- ★ Python IDE vs simple file editor
- ★ Strings & Numbers
- ★ Variables
- ★ Functions
- ★ User Input
- ★ Conditionals (if / else) & Boolean Data Type
- ★ Error Handling with Try / Except
- ★ While Loops
- ★ Lists and For Loops
- ★ Comments
- ★ Sets
- ★ Built-In Functions
- ★ Dictionaries
- ★ Modules
- ★ Demo Project: Countdown App
- ★ Packages, PyPi & pip
- ★ Demo Project: Automation with Python - Working with Spreadsheets
- ★ Classes and Objects
- ★ Demo Project: API Requests

Demo Projects	
Git Project	https://gitlab.com/twn-devops-bootcamp/latest/13-programming-with-python

Check your progress... 1/5



Introduction to Python

- ☒ Watched video

Install Python & Local Setup

- ☒ Watched video
- ☒ Install Python & PyCharm:
 - ☒ Python3 installed
 - ☒ PyCharm downloaded & setup

Useful Links:

- Python for different OS:
 - <https://www.python.org/downloads/>
 - Installation Guide for Windows:
<https://docs.python.org/3/using/windows.html#installation-steps>
- PyCharm Download: <https://www.jetbrains.com/pycharm/download/>

Our first program

- ☒ Watched video
- ☒ Demo executed

Python IDE vs simple File Editor

- ☒ Watched video

Check your progress... 2/5



Strings and Numbers

- ☐ Watched video
- ☐ Demo executed

Variables

- ☐ Watched video
- ☐ Demo executed

Functions

- ☐ Watched video
- ☐ Demo executed

User Input

- ☐ Watched video
- ☐ Demo executed

Conditionals (if / else) & Boolean Data Type

- ☐ Watched video
- ☐ Demo executed - validate User Input to make our program more robust

Error Handling with try / except

- ☐ Watched video
- ☐ Demo executed

Check your progress... 3/5



While Loops

- ☐ Watched video
- ☐ Demo executed

Lists and For Loops

- ☐ Watched video
- ☐ Demo executed

Comments

- ☐ Watched video

Sets

- ☐ Watched video
- ☐ Demo executed

Built-In Functions

- ☐ Watched video
- ☐ Demo executed

Dictionaries

- ☐ Watched video
- ☐ Demo executed

Check your progress... 4/5



Modules

- ☐ Watched video
- ☒ Demo executed

Project: Countdown Application

- ☐ Watched video
- ☒ Program implemented
 - ☐ Get user Input: goal and deadline
 - ☐ Convert deadline string into a proper date type
 - ☐ Calculate how many days are left until the deadline
 - ☐ Print a proper message to the user including the entered goal
 - ☐ Calculate how many hours are left until the deadline

Exercise:

Write a program that accepts a user input of a goal and a deadline date.

And print back to the user, how much time they have remaining till that deadline.

Packages, PyPi & pip

- ☐ Watched video
- ☒ Demo executed

Check your progress... 5/5



Project: Automation with Python - Spreadsheet

- ☐ Watched video
- ☐ **Program implemented**
 - ☐ Exercise 1 - List companies with respective product count
 - ☐ Exercise 2 - List companies with respective total inventory value
 - ☐ Exercise 3 - List products with less than 10 in inventory
 - ☐ Exercise 4 - Write to Spreadsheet and save into a new File

Classes and Objects

- ☐ Watched video
- ☐ **Demo executed**

Project: API Requests

- ☐ Watched video
- ☐ **Program implemented - API Request to list your GitLab projects**