






















## ^ Day 1 - Beginner - Working with Variables in Python to Manage Data

17 lectures • 1hr 30min

-  [What you're going to get from this course](#) [Preview](#) 03:27
-  [START HERE](#) [Preview](#) 02:53
-  [Downloadable Resources and Tips for Taking the Course](#) [Preview](#) 04:22
-  Skills Assessment  10 questions
-  Day 1 Goals: what we will make by the end of the day 02:30
-  FAQ: Can I Use PyCharm/VSCode/ Another Local Code Editor? 00:53
-  Printing to the Console in Python 09:28
-  Join Our Class on Coding Rooms 01:02
-  [Interactive Coding Exercise] Printing 12:24
-  String Manipulation and Code Intelligence 09:46
-  [Interactive Coding Exercise] Debugging Practice 06:08
-  The Python Input Function 08:49
-  [Interactive Coding Exercise] Input Function 07:02
-  Python Variables 06:43
-  [Interactive Coding Exercise] Variables 04:00
-  Variable Naming 03:58
-  Variable Naming Quiz  3 questions
-  Day 1 Project: Band Name Generator 05:49
-  Congratulations! Well done! 00:52

^ **Day 2 - Beginner - Understanding Data Types and How to Manipulate Strings**

10 lectures • 1hr 12min

▶	Day 2 Goals: what we will make by the end of the day	01:46
▶	Python Primitive Data Types	07:58
♀	Data Types Quiz	3 questions
▶	Type Error, Type Checking and Type Conversion	07:19
▶	[Interactive Coding Exercise] Data Types	06:04
▶	Mathematical Operations in Python	08:27
▶	[Interactive Coding Exercise] BMI Calculator	07:10
▶	Number Manipulation and F Strings in Python	08:10
▶	[Interactive Coding Exercise] Life in Weeks	06:24
♀	Mathematical Operations Quiz ▼	3 questions
▶	Day 2 Project: Tip Calculator	18:26
▶	You are already in the top 50%	00:29


### ^ Day 3 - Beginner - Control Flow and Logical Operators

12 lectures • 1hr 36min

- ▶ Day 3 Goals: what we will make by the end of the day 01:22
- ▶ Control Flow with if / else and Conditional Operators 10:24
- ▶ [Interactive Coding Exercise] Odd or Even? Introducing the Modulo 04:56
- ▶ Nested if statements and elif statements 06:28
- ▶ [Interactive Coding Exercise] BMI 2.0 07:18
- ▶ [Interactive Coding Exercise] Leap Year 10:34
- ▶ Multiple If Statements in Succession 09:29
- ▶ [Interactive Coding Exercise] Pizza Order Practice 06:16
- ▶ Logical Operators 05:58
- ▶ [Interactive Coding Exercise] Love Calculator 14:07
- ▶ Day 3 Project: Treasure Island 18:12
- ▶ Share and Show off your Project! 00:43

### ^ Day 4 - Beginner - Randomisation and Python Lists

9 lectures • 1hr 21min

- ▶ Day 4 Goals: what we will make by the end of the day 01:31
- ▶ Random Module 13:45
- ▶ [Interactive Coding Exercise] Heads or Tails 02:16
- ▶ Understanding the Offset and Appending Items to Lists 13:14
- ▶ [Interactive Coding Exercise] Banker Roulette - Who will pay the bill? 10:22
- ▶ IndexError and Working with Nested Lists 05:25
- ♀ List and IndexError Quiz  3 questions
- ▶ [Interactive Coding Exercise] Treasure Map 11:36
- ▶ Day 4 Project: Rock Paper Scissors 21:27
- ▶ Programming is like going to the Gym 01:04

## ^ Day 5 - Beginner - Python Loops

9 lectures • 59min

- ▶ Day 5 Goals: what we will make by the end of the day 03:13
- ▶ Using the for loop with Python Lists 07:32
- ▶ [Interactive Coding Exercise] Average Height 08:40
- ▶ [Interactive Coding Exercise] High Score 07:08
- ▶ for loops and the range() function 05:21
- ▶ [Interactive Coding Exercise] Adding Even Numbers 04:35
- ▶ [Interactive Coding Exercise] The FizzBuzz Job Interview Question 05:22
- ▶ Day 5 Project: Create a Password Generator 16:10
- ▶ Hard Work and Perseverance beats Raw Talent Every Time 01:08

## ^ Day 6 - Beginner - Python Functions & Karel

9 lectures • 1hr 23min

- ▶ Day 6 Goals: what we will make by the end of the day 01:01
- ▶ Defining and Calling Python Functions 15:50
- ▶ The Hurdles Loop Challenge 10:37
- ▶ Indentation in Python 09:14
- 💡 Code Indentation Quiz 3 questions
- ▶ While Loops 12:42
- ▶ Hurdles Challenge using While Loops 06:57
- ▶ Jumping over Hurdles with Variable Heights 08:12
- ▶ Final Project: Escaping the Maze 16:41
- ▶ Why is this \*so\* Hard?! Can I really do this? 01:25



## ^ Day 7 - Beginner - Hangman

13 lectures • 57min

- ▶ Day 7 Goals: what we will make by the end of the day 01:59
- ▶ How to break a Complex Problem down into a Flow Chart 05:13
- ▶ Challenge 1 - Picking a Random Words and Checking Answers 02:05
- ▶ Challenge 1 Solution - How to Check the User's Answer 06:45
- ▶ Challenge 2 - Replacing Blanks with Guesses 02:55
- ▶ Challenge 2 Solution - How to Replace the Blanks 10:46
- ▶ Challenge 3 - Checking if the Player has Won 03:25
- ▶ Challenge 3 Solution - How to Check if the Player Won 03:51
- ▶ Challenge 4 - Keeping Track of the Player's Lives 02:16
- ▶ Challenge 4 Solution - How to Keep Track of the Player's Lives 05:47
- ▶ Challenge 5 - Improving the User Experience 04:23
- ▶ Challenge 5 Solution - How to Add ASCII Art and Improve the UI 06:33
- ▶ The Benefits of Daily Practice 01:12

## ^ Day 8 - Beginner - Function Parameters & Caesar Cipher

10 lectures • 1hr 24min

- ▶ Day 8 Goals: what we will make by the end of the day 02:15
- ▶ Functions with Inputs 09:32
- ▶ [Positional vs. Keyword Arguments](#) [Preview](#) 08:51
- ▶ [Interactive Coding Exercise] Paint Area Calculator 07:48
- ▶ [Interactive Coding Exercise] Prime Number Checker 08:54
- ▶ Caesar Cipher Part 1 - Encryption 14:41
- ▶ Caesar Cipher Part 2 - Decryption 06:29
- ▶ Caesar Cipher Part 3 - Reorganising our Code 10:36
- ▶ Caesar Cipher Part 4 - User Experience Improvements & Final Touches 13:23
- ▶ How You Can \*Stay\* Motivated 01:06

^ Day 9 - Beginner - Dictionaries, Nesting and the Secret Auction		8 lectures • 1hr 2min
▶	Day 9 Goals: what we will make by the end of the day	02:29
▶	The Python Dictionary: Deep Dive	14:13
▶	[Interactive Coding Exercise] Grading Program	06:00
▶	Nesting Lists and Dictionaries	09:55
▶	[Interactive Coding Exercise] Dictionary in List	05:35
🔗	Python Dictionaries Quiz	3 questions
▶	The Secret Auction Program Instructions and Flow Chart	04:29
▶	Solution and Complete Code for the Secret Auction Program	18:13
▶	Motivation and the Accountability Trick	01:02

^ Day 10 - Beginner - Functions with Outputs		10 lectures • 55min
▶	Day 10 Goals: what we will make by the end of the day	01:34
▶	<a href="#">Functions with Outputs</a>	<a href="#">Preview</a> 12:57
▶	Multiple return values	03:31
▶	[Interactive Coding Exercise] Days in Month	06:44
▶	Docstrings	03:42
🔗	Functions Quiz	3 questions
▶	Calculator Part 1: Combining Dictionaries and Functions	08:43
▶	Print vs. Return	04:37
▶	While Loops, Flags and Recursion	07:49
▶	Calculator Finishing Touches and Bug Fixes	03:47
▶	How to Get a Good Night's Sleep	01:32

<https://www.udemy.com/course/100-days-of-code/>