

Development > Programming Languages > Python

# Learn Python Programming - Beginner to Master

Become a Python Expert. for Both Academics and Industry. 100+ Challenges

Created by Abdul Bari

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### What you'll learn

✓ Master Python Programming by doing 100+ Challenges

✓ Build Multithreaded Applications

✓ Build GUI Applications

✓ Learn Modules - DataStructure, OS, NumPy, Math, DateTime and Tkinter

✓ Detail understanding of fundamentals

✓ using Python for Database Programming

✓ Master art of Functional and Object-Oriented Programming

## Explore related topics

- Python
- Programming Languages
- Development

## This course includes:

- 61.5 hours on-demand video
- 17 coding exercises
- 211 downloadable resources
- Access on mobile and TV
- Certificate of completion

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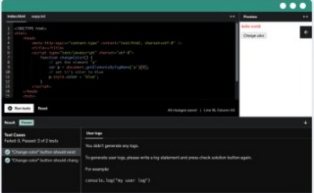
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### Coding Exercises

This course includes our updated coding exercises so you can practice your skills as you learn.

[See a demo](#)



## Course content

26 sections • 354 lectures • 61h 43m total length

[Expand all sections](#)

Introduction to Python		8 lectures • 1hr 6min
<div>📄</div>	<a href="#">Instructor's Note</a>	<a href="#">Preview</a> 04:34
<div>📄</div>	<a href="#">introduction to Python</a>	<a href="#">Preview</a> 05:41
<div>📄</div>	<a href="#">Programming Languages</a>	09:42
<div>📄</div>	<a href="#">Compiler VS Interpreter</a>	<a href="#">Preview</a> 13:55
<div>📄</div>	Python is Hybrid	06:37
<div>📄</div>	Python is Platform Independent	08:29
<div>📄</div>	Programming Paradigms	12:35
<div>📄</div>	Python Libraries	04:16
Python Installation and Setup		4 lectures • 35min
<div>📄</div>	Installing Python	06:55
<div>📄</div>	Installing Pycharm	06:33
<div>📄</div>	Installing VS Code	07:32
<div>📄</div>	Installing and using Jupiter Notebook	14:05
Python Datatypes		13 lectures • 2hr 42min
<div>📄</div>	Section Introduction	01:43
<div>📄</div>	What is a Program ?	05:28
<div>📄</div>	What are Variables ?	14:15
<div>📄</div>	Python Dynamically Typed	08:19
<div>📄</div>	Rules for declaring Variable Names	13:42
<div>📄</div>	<a href="#">Python Data Types</a>	<a href="#">Preview</a> 12:37
<div>📄</div>	Variables	5 questions
<div>📄</div>	Setup Jupyter for Practice	08:45
<div>📄</div>	<a href="#">Numeric Datatypes (int &amp; float)</a>	<a href="#">Preview</a> 17:55
<div>📄</div>	Numeric Datatype (bool & complex)	14:37

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▢ Literals or Constants ▾	16:01
▢ Integer Literals ▾	12:50
🔗 Numeric type & Literals	4 questions
▢ Base Conversion ▾	11:47
▢ Type Conversion ▾	24:27
🔗 Type and Base conversions	4 questions
^ <b>Operators and Expression</b>	10 lectures • 1hr 46min
▢ Section Introduction	01:20
▢ Arithmetic Operators ▾	12:13
▢ Expressions ▾	14:50
▢ Program using Expressions ▾	04:16
↔ Area of a Rectangle	1 question
▢ Challenges using Expression ▾	13:57
🔗 Arithmetic Operators and Expressions	4 questions
↔ Area of a Triangle	1 question
↔ Area of a Trapezium	1 question
↔ Area of a Circle	1 question
▢ Taking Input From Keyboard ▾	09:44
↔ Kilometers to Miles	1 question
↔ Calculate the Displacement.	1 question
▢ Challenge : Surface area of Cuboid ▾	09:15
↔ Surface Area of a Cuboid	1 question
▢ Challenge : Quadratic Equations ▾	13:03
▢ Arithmetic Assignment Operators ▾	10:00
▢ String Concatenation & Repetition ▾	17:05
🔗 Arithmetic Assignment Operators	4 questions
^ <b>Conditional Statements</b>	14 lectures • 2hr 16min
▢ Section Introduction	01:26
▢ Conditional Statements- if ...else ▾	11:16
▢ Compound Conditional Statements ▾	12:59
▢ Challenge : Odd or Even ▾	06:25
↔ Odd or Even	1 question
▢ Challenge : Eligible to Work ▾	09:00
↔ Age Check for Work	1 question
↔ Valid Marks	1 question
↔ Gender Check	1 question
▢ Challenge : Exam Result ▾	07:58
↔ Vowel or Consonant	1 question
↔ Exam Result	1 question
↔ Eligibility to Vote	1 question
▢ Nested if and elif Statements ▾	07:11
▢ Challenge : Discounted Bill ▾	04:33
▢ Challenge : Weekday Name ▾	09:02
▢ Challenge : Leap Year or Not ▾	13:12
▢ String Comparison ▾	11:20
▢ Short Circuit ▾	11:26
▢ Bitwise Operator ▾	19:57
▢ Chaining Comparison ▾	09:56
🔗 Conditional Statements	5 questions
^ <b>Loops - Control Flow</b>	18 lectures • 3hr 19min
▢ Section Introduction	01:16
▢ Introduction to Loops ▾	10:30
▢ Logic using While Loop ▾	15:57
▢ Challenge : Count & Sum of Digits ▾	08:57
↔ Count Digits of a Number	1 question
↔ Sum of Digits of a Number	1 question
▢ Challenge : Reverse and Palindrome ▾	11:35
↔ Reverse a Number	1 question
▢ Challenge : Sum of N numbers ▾	11:34
▢ Challenge : Finding Max and Min Number ▾	14:17
🔗 Loops	2 questions
▢ Infinite Loop - break - continue ▾	14:51
▢ else suite - While ▾	09:20
▢ For Loop ▾	16:52
▢ Challenge : Factorial of Given Number ▾	11:45
▢ Challenge : Fibonacci Series ▾	09:48
▢ Challenge : Prime Number ▾	11:53



More about For Loop	06:46
Infinite - break, pass, for loop	4 questions
Nested Loops	10:25
Challenge : Prime Numbers from 1-100	07:16
Challenge : Draw Patterns	18:29
Match Case	07:43
String and its Methods19 lectures • 3hr 41min	
Section Introduction	01:06
Introduction to String	15:36
Indexing Slicing	22:06
Strings Operations	12:28
Introduction to Strings	2 questions
String Class	13:44
find() and index() Methods	19:58
String Alignment and Padding	16:12
Joining and Splitting a String	18:01
Prefix and Suffix of a String	14:47
Case Conversion Methods	10:31
Inquiry Methods	13:41
More Inquiry Methods	13:10
Restaurant Menu - Project	06:15
Card Payment Receipt - Project	05:17
URL Parsing - Project	09:45
Palindrome String - Project	08:22
Anagrams - Project	07:43
Data Cleaning - Project	05:31
Resetting Password - Project	06:40
String Methods	4 questions
Formatted Printing8 lectures • 1hr 42min	
Section Introduction	01:39
ASCII Code	13:11
Unicode	15:11
Escape Sequence : Special Characters	15:51
Escape Sequence : Printable and Non Printable	07:54
Print Function	11:31
C Style Formatting	16:31
Python Formatted Printing	20:01
Escape Sequences and Printing	5 questions
Regular Expression5 lectures • 1hr 12min	
Section Introduction	01:03
Regular Expressions	17:45
Quantifiers	17:28
Special Characters	23:06
Escape Sequences	12:26
Regular Expression	5 questions
List21 lectures • 3hr 9min	
Section Introduction	01:59
List Introduction	15:42
Indexing and Slicing - Read	11:27
Indexing and Slicing - Write	16:25
List Concatenation & Repetition	13:56
List Traversals	10:52
Adding Elements to a List	16:31
Removing Elements from a List	11:11
Index, Sort & Reverse	18:47
List Comprehensions	12:44
Nested List	09:42
Challenge : Calculating Salary	06:18
Challenge : Removing Duplicates	03:37
Challenge : Concatenating List into Single Number	03:23
Challenge : Minimum Index in Sum of Two Lists	06:59
Challenge : Overlapping Elements in Two Lists	02:41
Challenge : Find the number of occurrences of each item.	06:21
Challenge : Telegram-Morse Code	08:35
Challenge : Arduino Two Matrix	05:34



📁 Challenge : Transpose of Matrix ▾	04:18
📁 Challenge : Word Starting with a Given Letter ▾	02:25
🔍 List	7 questions
^ <b>Tuple</b>	5 lectures • 48min
📁 Section Introduction	00:45
📁 Tuple Introduction ▾	15:35
📁 Tuple Comprehensions and Methods ▾	08:46
📁 Indexing & Slicing - Tuple ▾	10:53
📁 Packing and Unpacking ▾	11:37
🔍 Tuple	5 questions
^ <b>Sets</b>	9 lectures • 1hr 29min
📁 Section Introduction	01:15
📁 Sets - Introduction ▾	17:57
📁 Internal Working of Sets ▾	16:36
📁 Set in Mathematics ▾	07:46
📁 Set Operations in Mathematics ▾	09:03
📁 Set Methods : Union , Intersection, Difference etc. ▾	10:09
📁 Operators on Set ▾	08:41
📁 Set Methods : Adding and Deleting ▾	12:52
📁 Set Comprehensions ▾	04:53
🔍 set	6 questions
^ <b>Dictionary</b>	11 lectures • 1hr 31min
📁 Section Introduction	01:01
📁 Dictionary - Introduction ▾	16:59
📁 Dictionary Creation Methods ▾	12:41
📁 Dictionary Comprehensions ▾	08:16
📁 Looping over Dictionary ▾	10:55
📁 Dictionary Methods ▾	11:08
📁 Challenge : Birthday of a Person ▾	02:41
🔍 Dictionary	8 questions
📁 Challenge : Finding Meanings in Dictionary ▾	09:12
📁 Challenge : Countries Names ▾	05:35
📁 Challenge : Roman to Integer Number ▾	09:12
📁 Challenge : Student Details	03:23
^ <b>Functions</b>	26 lectures • 4hr 53min
📁 Section Introduction	01:09
📁 What are Functions ? ▾	09:15
📁 How to Write a Function ? ▾	15:57
📁 Positional vs Keyword Arguments ▾	13:49
📁 Default Arguments ▾	21:16
📁 Positional-Only Arguments ▾	11:25
📁 Keyword-Only Arguments ▾	09:02
📁 Positional-Only & Keyword-Only Mixed ▾	06:55
🔍 Functions	3 questions
📁 Variable Length Positional Arguments ▾	16:37
📁 Variable Length Keyword Arguments ▾	10:04
📁 Multiple Returns ▾	06:11
📁 Iterators and Generators ▾	21:26
📁 Local & Global Variables ▾	13:16
📁 Recursive Functions ▾	15:43
🔍 Parameters to Functions	3 questions
📁 Math Functions : Built-in	19:07
📁 Object & Attribute Function : Built-in ▾	13:21
📁 Iteration & Sequence Functions : Built-in ▾	08:27
📁 What are Modules ? ▾	18:27
📁 Challenge : Printing Positional Message ▾	03:10
📁 Challenge : Planet Names ▾	04:41
📁 Challenge : Inverting a Dictionary ▾	04:50
📁 Challenge : Pangram Phrase ▾	11:18
📁 Challenge : Case Counting Letters ▾	04:52
📁 Challenge : Minimum Variable Number ▾	07:40
📁 Challenge : Pascal's Triangle ▾	15:39
📁 Challenge : Flattening Nested List ▾	09:36
^ <b>More About Functions</b>	8 lectures • 1hr 15min



Functions as Objects	08:08
Nested Functions	07:39
Functions as Parameters	06:16
Returning Functions	03:48
Closure Function	13:05
Decorator	09:10
Lambda	20:43
Caller Class	06:30
^ <b>Exception Handling</b> 14 lectures • 2hr 24min	
Section Introduction	01:03
Types of Errors	12:19
Who Should Handle Errors?	10:37
Examples of Exceptions	08:31
Exceptional Handling	14:07
Handling Multiple Exceptions	10:30
Exceptions #1	10 questions
Why try and except ?	16:11
else Blocks	05:36
finally Block	14:21
User Define Exceptions	13:28
Nested try & except	08:22
Exceptions #2	4 questions
Challenge : Negative Age	06:40
Challenge : Account Balance	07:27
Challenge : Simple Calculator	14:24
^ <b>File Handling</b> 8 lectures • 1hr 34min	
Section Introduction	00:54
Introduction to Files	11:59
Modes of Opening a File	14:35
Operations on File	17:00
Copying Binary Files	07:24
Random Access Files	18:02
Pickle and UnPickle	14:37
Zip and Unzip	09:30
Files	7 questions
^ <b>Object Oriented Programming</b> 33 lectures • 5hr 22min	
Introduction to OOPS	15:55
Defining Object	09:36
How to write a Class	07:41
Self and Constructor	09:18
Instance Variable and Method	11:48
Class Variable and Method	17:16
Static Methods	11:50
Property Methods	16:05
Introduction to Inheritance	10:13
Constructors in Inheritance	06:39
Data Hiding	14:10
Inner Classes	04:47
Polymorphism	08:23
Polymorphism (DuckTyping)	13:05
Method Overloading	06:55
Method Overriding	06:50
Operator Overloading	14:51
Generalization & Specialization	18:52
Abstract Class and Interface	09:20
Method Resolution	09:56
Quiz	6 questions
Challenge : Class for Circle	05:11
Challenge : Details of an Employee	08:14
Challenge : Simple Class for Calculator	03:46
Challenge : Customer Phone Number	04:27
Challenge : Currency Converter	07:05
Challenge : Bank Account	11:49
Challenge : Inheriting Shapes in Classes	10:20
Challenge : Academic Courses	08:47



📁 Challenge : Details of a Computer ▾	07:35
📁 Challenge : Pet Details ▾	05:58
📁 Challenge : Measuring the Angles ▾	09:34
📁 Challenge : Different Shape Class ▾	06:18
📁 Challenge : Rational Number ▾	09:07
^ <b>MultiThreading</b> 8 lectures • 1hr 6min	
📁 Section Introduction	01:13
📁 Introduction to MultiThreading ▾	08:16
📁 Ways of Thread Creation ▾	10:07
📁 Mutex ▾	08:21
📁 Semaphore ▾	05:42
📁 Inter-Process Communication (IPC) ▾	16:28
📁 IPC using Conditions ▾	07:50
📁 IPC using Queue ▾	08:24
🔍 MultiThreading	4 questions
^ <b>Date and Time</b> 14 lectures • 1hr 52min	
📁 Section Introduction	01:20
📁 Introduction to Date ▾	13:19
📁 Creating Date and Time ▾	09:26
📁 Formatting Date and Time ▾	13:43
📁 What is timedelta ? ▾	07:42
📁 Calendar Module ▾	12:53
🔍 DateTime	5 questions
📁 Challenge : Months Starting from Monday ▾	04:41
📁 Challenge : Code Execution Time ▾	05:12
📁 Challenge : String to Object Date ▾	04:18
📁 Challenge : Calculate Age ▾	07:58
📁 Challenge : Last Thursday's Date ▾	11:20
📁 Challenge : All Sundays of a Year ▾	06:16
📁 Challenge : Day Number of a Year ▾	03:55
📁 Challenge : Second Saturdays in a Year ▾	10:23
^ <b>DataBase Connectivity</b> 17 lectures • 3hr 10min	
📁 Section Introduction	01:34
📁 DataBase Terminology ▾	10:02
📁 Downloading SQLite ▾	06:21
📁 Learning DDL & DML ▾	18:49
📁 Learning SQL Select Queries ▾	16:50
📁 Learning SQL join and group Queries ▾	13:44
📁 Learning Aggregate Functions and Set Operations ▾	11:27
📁 Learning SubQueries ▾	12:43
📁 Using Python : Create DataBase ▾	05:29
📁 Using Python : Create Tables ▾	10:13
📁 Using Python : Insert into Tables ▾	08:59
📁 Using Python : Querying Data ▾	18:30
📁 Using Python : Querying Data #2 ▾	09:30
📁 Using Python: Update & Delete ▾	10:58
📁 Challenge:Shop Database	08:46
📁 Challenge:Shop Queries	10:20
📁 Challenge: Shop Queries #2	15:52
🔍 SQL	6 questions
^ <b>Data Structure Modules</b> 18 lectures • 2hr	
📁 Section Introduction	00:35
📁 Counter ▾	06:06
📁 Deque ▾	07:05
📁 Array ▾	06:14
📁 Heapq ▾	06:46
📁 Bisect ▾	05:33
📁 Copy ▾	05:31
🔍 Data Structure Quiz	3 questions
📁 Challenge : Top 3 Common Words ▾	06:37
📁 Challenge : Inventory ▾	05:32
📁 Challenge : Bills with Subtotals ▾	11:20
📁 Challenge : Barbershop Queue ▾	05:53
📁 Challenge : Canteen Queue ▾	05:37

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Challenge : First Duplicate in Array	0b:48
Challenge : Missing Natural Number	09:09
Challenge : Integers with Highest Product	12:15
Challenge : Performing Heap Sort	06:34
Challenge : K th Largest Number	09:09
Challenge : Sorting a List	04:22
<b>Math Modules</b> 5 lectures • 50min	
Section Introduction	00:30
Fractions	08:01
Random	14:32
Math	16:56
Statistics	10:13
<b>OS Module</b> 7 lectures • 1hr 8min	
Section Introduction	01:06
OS Path and it's Functions	15:58
OS Module and it's Functions	13:46
Reading a CSV File	13:10
Reading a CSV File in Dictionary Format	10:02
Creating a CSV File Using Writer	06:09
CSV Dictionary Writer	07:21
<b>Tkinter</b> 46 lectures • 9hr 40min	
Section Introduction	01:44
Introduction to Tkinter	09:04
First Application in Tkinter	10:49
What are Widgets?	15:54
How Widget Options works ?	23:19
Geometry Manager : pack	17:00
Geometry Manager : grid	11:24
Geometry Manager : place	16:22
Introduction to Events	11:33
Event Binding	19:39
Event Binding Continued..	16:29
Event Class	16:14
Modifying Widget Options in a Event Handler	16:54
Tkinter Documentation	09:49
Widget Options : State	16:31
Widget Options : Style	16:47
Widget Options : Selection	08:50
Widget Options : Cursor	08:18
Widget Options : Text Wrap	08:58
Widget Options : Numbers	12:38
Widget Options : Graphic	06:51
Check Button Widget	14:25
Radio Button Widget	05:56
Label & Button Widget	06:21
List Box Widget	12:56
List Box Widget Continued..	06:39
Spin Box Widget	12:20
Scale Widget	11:21
Entry Widget	16:23
Text Widget	15:37
Creating Menus	20:58
MessageBox Dialog	08:59
FileDialog Widget	14:01
Challenge : Digital Clock	08:00
Challenge : Stop Watch	15:48
Challenge : Font Options	09:35
Challenge : Base Conversion	07:41
Challenge : Shuffle List	08:41
Challenge : Option Menu	09:04
Challenge : Colour Selection	12:29
Challenge : CSV Data	10:00
Challenge : CSV Records	12:45
Frame & Label Frame	10:14
Top Level Widget	12:07
Canvas Widget	22:50



Challenge : Drawing Application	20:15
NumPy Arrays 5 lectures • 1hr 14min	
Array Creation in Numpy	16:30
Creating Different Types of Arrays	19:06
Indexing Arrays	17:02
Reshaping Array	06:55
DataTypes in Numpy	14:28
Numpy Quizz	7 questions

## Requirements

- No Programming Experience Needed
- Laptop or PC with access to Internet

## Description

**Learn Python Programming** - course is curated for Beginner to Master.

Every topic is covered in depth with practical examples.

100+ **Challenges** to make you expert in Problem Solving using Python

By the end of the course you will understand Python extremely well and will be able to build your own Python applications.













**Resources** are available for every lectures.

Answer Quiz at the end of major topics, to feel confident.

Do Projects using Tkinter, GUI Programming.

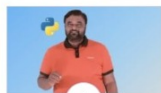


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★★★★★

4 weeks ago

what a presentation of concept !! , quality of content is amazing thanks for the update.



Helpful?  



★★★★★

a month ago

Best course for learning python from scratch .Each and every topic has been covered this is more than sufficient course .New learners must check out this course .Thanks for this wonderful course .

Helpful?  



★★★★★

a month ago

Vanya K.

This course was very good and had lots of information. But sometimes the lectures were too long and was repeating one paragraph more then twice. I did really enjoy this course and would also recommend other too.

Helpful?  



★★★★★

3 months ago

Vasily F.

a very good beginning course with a lot of excurses , detailed explanations of the key concepts. An emphasis on recurring practice is giver repeatedly through the course. Good programming techniques are shown.

Helpful?  

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