

Python for Beginners

Weekly Study Group for Python Beginners
Starting October 22nd | 12PM ET



Register at womenwhocode.com/events

WELCOME!

We will get started shortly.

Please share in the Chat:

- Where you are joining from
- What the weather is like today

Reminder: Set your Chat to “Everyone”.

Our Mission

Empower diverse
women to excel in
technology careers



Our Vision

A tech industry where diverse women and historically excluded people thrive at every level.



CODE OF CONDUCT

WWCode is an inclusive community, dedicated to providing an empowering experience for everyone who participates in or supports our community, regardless of gender, gender identity and expression, sexual orientation, ability, physical appearance, body size, race, ethnicity, age, religion, socioeconomic status, caste, creed, political affiliation, or preferred programming language(s).

Our events are intended to inspire women to excel in technology careers, and anyone who is there for this purpose is welcome. We do not tolerate harassment of members in any form.

Our **Code of Conduct** applies to all WWCode events and online communities.

Read the full version and access our incident report form at

womenwhocode.com/codeofconduct

/upcoming events

Learn more and register at
womenwhocode.com/python

ONLINE



Sunday,
October 29
9:30 PM - 10:30 PM IST


Python for Beginners: Study Group

WWCode Python


Have you thought about learning Python but you don't know where to start? We will go through free course material provided by Python Institute in small segments and practice the example problems. Jo...

REGISTER

☆ SAVE



ONLINE



Saturday,
November 11
9:30 PM - 10:30 PM IST


Introduction to Qt

WWCode Python


Do you have a cool application idea or want to distribute your tools to non-technical users? Join our Introduction to Qt talk to learn how to create your first interface with PyQt/PySide! We will go...

REGISTER

☆ SAVE



ONLINE



Tuesday,
November 14
9:30 PM - 10:30 PM IST


💎 Monthly Trivia 💎 - Women Who Code Python

WWCode Python

Join others from all over the world to compete every month to answer 10 questions on Python! We'll keep track of the leaderboard throughout the series and the person with the highest points by the e...

REGISTER

☆ SAVE



/stay connected

Join Women Who Code
Python on Slack 

Find us on LinkedIn, Twitter,
Instagram & Facebook:
@WWCodePython



Find links to join our
community and follow us:
`beacons.ai/WWCodePython`

Python for Beginners

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Starting October 22nd | 12PM ET



Register at womenwhocode.com/events

MEET THE TEAM



Lisa Adams

General Volunteer
WWCode Python



Dilek

General Volunteer
WWCode Python



Amma

General Volunteer
WWCode Python



Soumya

Leadership Fellow
WWCode Python



Shrishti

Track Lead
WWCode Python

Our Speaker

Lisa Adams, General Volunteer

Lisa has a B.S. in Electrical Engineering Tech. and has been employed as a Hardware Technical Writer in the satellite communications industry for more than 25 years.

In her free time, she volunteers with a variety of tech organizations and likes to learn all about software, especially Python and APIs! She is also a Women Who Code DFW Evangelist.



[PCEP-30-02]
PCEP – Certified
Entry-Level
Python...
Python Institute



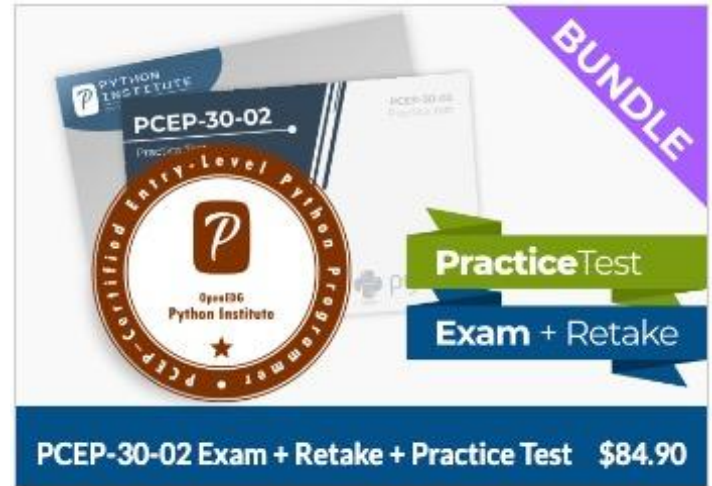
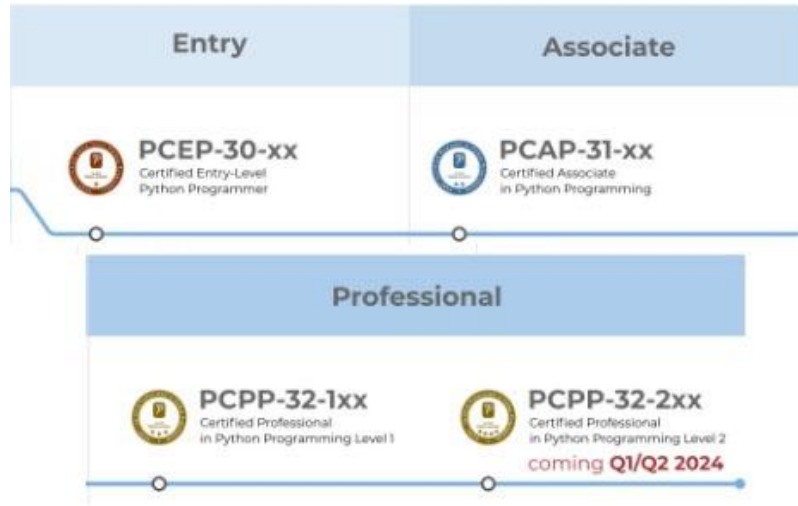
Agenda

Week 1

- Study Group Overview
- Reference Materials
- Why Learn Python?
- About Python Institute
 - Signing up for the course
- Installing Python
- Python IDEs
- This Week's Assignment
- QnA

Overview

Python Institute - <https://pythoninstitute.org>



Overview

Python Institute - <https://pythoninstitute.org>

Slack - [#beginner-python-stdy-grp](#)



1. **Module 1** (Week 2)

Introduction to Python and Computer Programming

2. **Module 2** (Week 2 - 5)

Data types, variables, basic input operations, and basic operators

3. **Module 3** (Week 6 - 10)

Boolean values, conditional execution, loops, lists and list processing, logical and bitwise operations

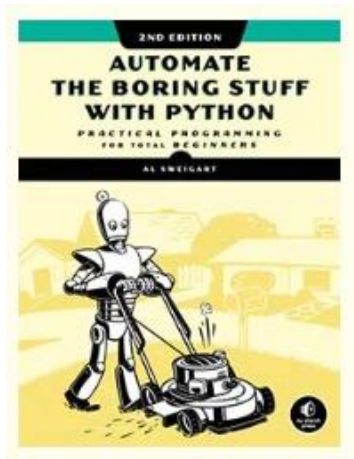
4. **Module 4** (Week 11 - 13)

Functions, tuples, dictionaries, exceptions, and data processing



[PCEP-30-02]
PCEP - Certified
Entry-Level
Python...
Python Institute

Reference Material



Automate the Boring Stuff
automatetheboringstuff.com



*AI won't take your job, but a
human who knows how to
work with AI will!*

Reference Material

PEP8 Standard Library

Describes the exact syntax and semantics of the Python language.

<https://docs.python.org/3/library/index.html>

Style Guide “Official”

This document gives coding conventions for the Python code comprising the standard library in the main Python distribution.

<https://peps.python.org/pep-0008/>

Style Guide “Easy to Read”

<https://pep8.org>

Why learn Python?

- **Versatile** (Web Dev, Data, ML, Scientific Computing)
- **Easiest Language to Learn** (straightforward syntax)
- **Large Active Community** (WWC-Python, Meetup Group, PyTexas)
- **Automation and Scripting**
- **Career Opportunities**
- **Testing**

Python Institute

Python Institute - <https://pythoninstitute.org>



About ▾

Certifications ▾

Study Resources ▾

Community ▾

STUDY RESOURCES

CHECK OUT OUR COURSES



Python
Essentials 1



Python Beginner

PYTHON ESSENTIALS 1

Python 101 (PE1)



Python
Essentials 2



Python Associate

PYTHON ESSENTIALS 2

Python 102 (PE2)



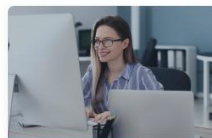
Advanced
OOP



Python Advanced

PYTHON ADVANCED 1

Python 201 (Advanced OOP)



Best Practices
and Standardization



Python Advanced

PYTHON ADVANCED 2

Python 202 (PEPs)

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Python Institute

Python Institute
<https://pythoninstitute.org>



About ▾ Certifications ▾ Study Resources ▾ Community ▾

Dive into programming, learn Python from scratch, and prepare for the PCEP – Certified Entry-Level Python Programmer certification.

This introductory course gives you an opportunity to **dive into Python** and computer programming with **no specific prerequisites or prior knowledge** required. It will guide you from a state of complete programming illiteracy to a level of programming knowledge which will allow you to **design, write, debug, and run Python scripts**, and to understand the basic concepts of software development technology.

Having completed the course, you will be prepared to attempt the qualification [PCEP – Certified Entry-Level Python Programmer](#) certification, and to get your foot in the door to careers in **software development, data analysis, and testing**.

Key skills you will learn

Python Essentials 1
Entry-Level

Python Essentials – Part 1 (Basics)

Level: **Beginner** | Length: 6-7 weeks (Suggested: 6-7 hours/week) | Language: English, Spanish | Cost: Free

This course is the first in a 2-course series that will prepare you for the PCEP – Certified Entry-Level Python Programmer certification exam, and help you build the essential foundations for the PCAP – Certified Associate in Python Programming certification exam.

The main goal of the course is to guide you from a state of complete programming illiteracy to a level of programming knowledge which allows you to design, write, debug, and run programs encoded in the Python language, and to understand the basic concepts of software development technology.

The course will prepare you for jobs and careers connected with widely understood software development, which includes not only creating the code itself as a junior developer, but also computer systems design and software testing.

For more information about the course, click here: [SIGN UP](#)

WOMEN WHO
CODE
/python



« Syllabus | Why learn ... »

LIST OF CONTENTS

Welcome to PE1 **Now** »

Module 1: Introduction to Python and computer programming »

Module 2: Data types, variables, basic I/O operations, and basic operators »

Module 3: Boolean values, conditional execution, loops, lists and list processing »

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Course Syllabus

In this course you will learn:

- the universal concepts of computer programming;
- the syntax and semantics of the Python language;
- practical skills in resolving typical implementation challenges;
- how to use the most important elements of the Python Standard Library;
- how to install your runtime environment;
- how to design, develop, test, and debug your own Python programs.

The course is divided into 4 modules:

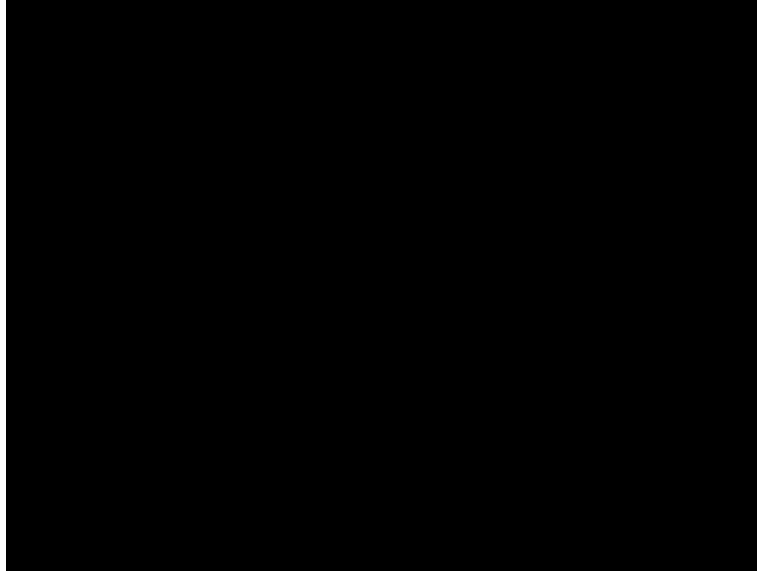
1. **Module 1**
Introduction to Python and computer programming;
2. **Module 2**
Data types, variables, basic input-output operations, and basic operators;
3. **Module 3**
Boolean values, conditional execution, loops, lists and list processing;
4. **Module 4**
Advanced Python topics.

Prev

Next

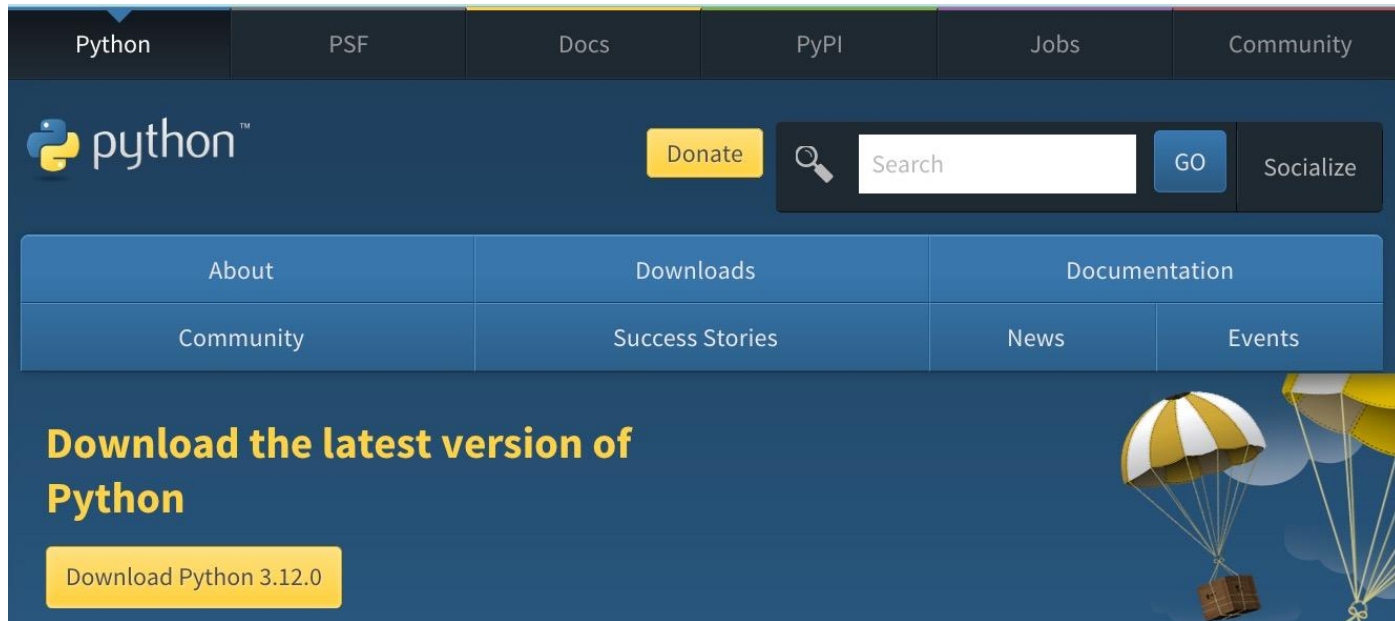
Python Institute

Python Institute - <https://pythoninstitute.org>



Install Python

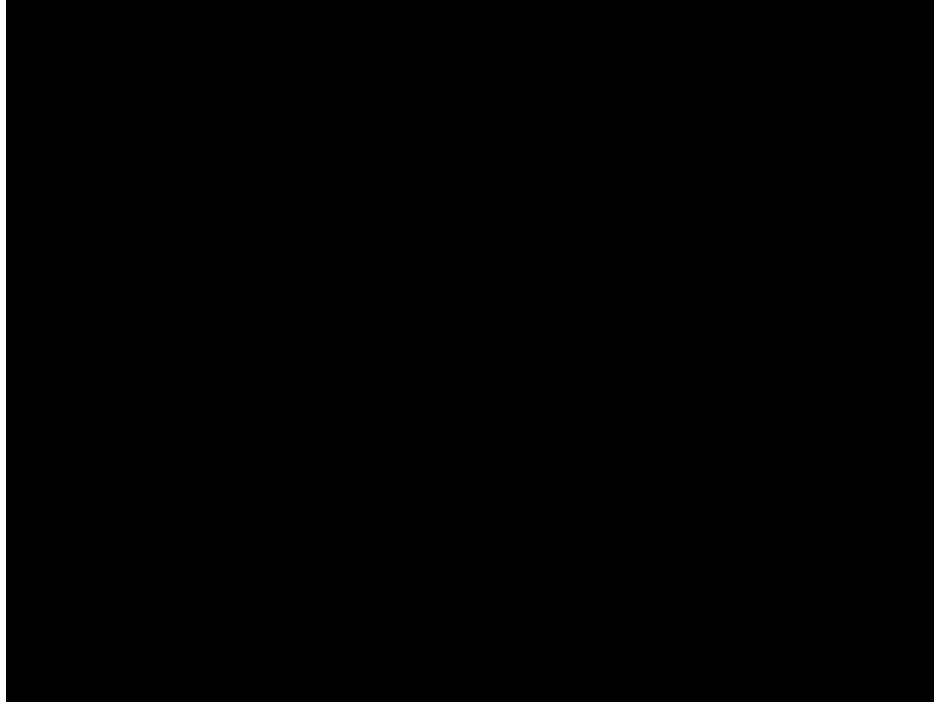
<https://www.python.org/downloads/>



Install Python

<https://www.python.org/downloads>

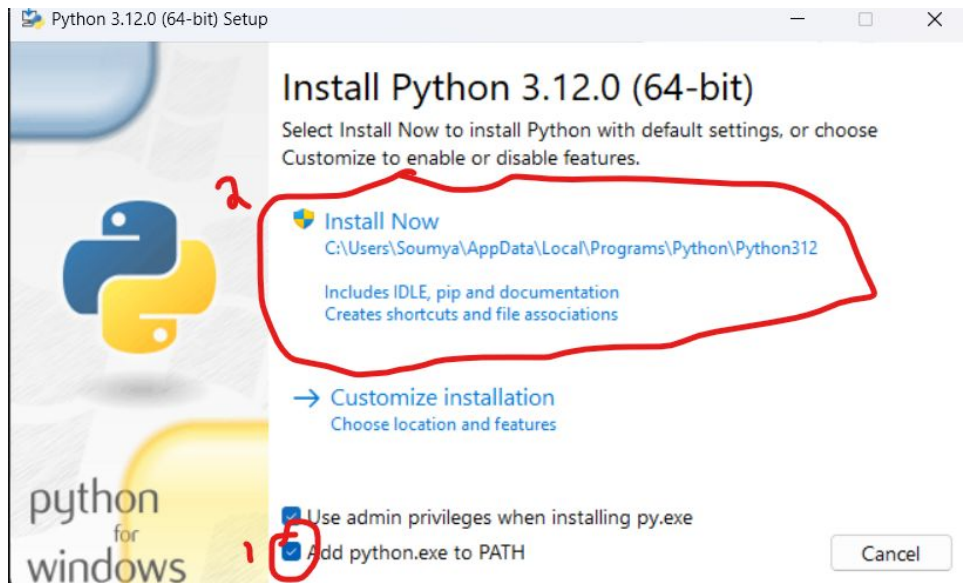
On Windows



Install Python

<https://www.python.org/downloads>

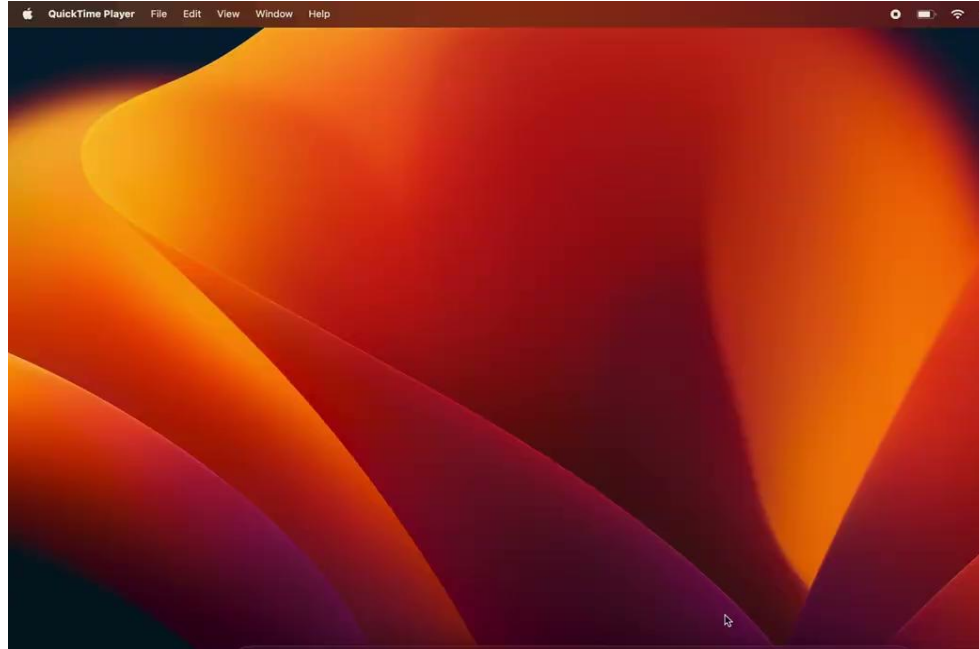
Windows (from python.org)



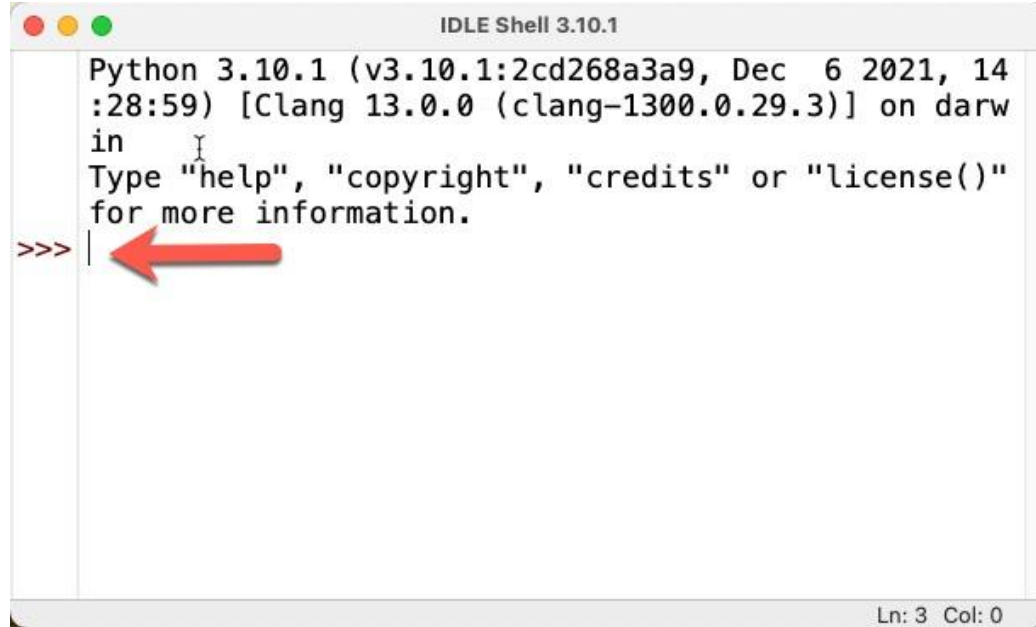
Install Python

<https://www.python.org/downloads>

On MacOS

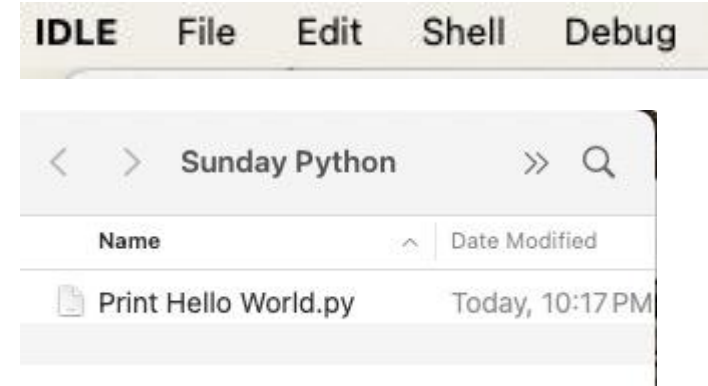


Python IDE

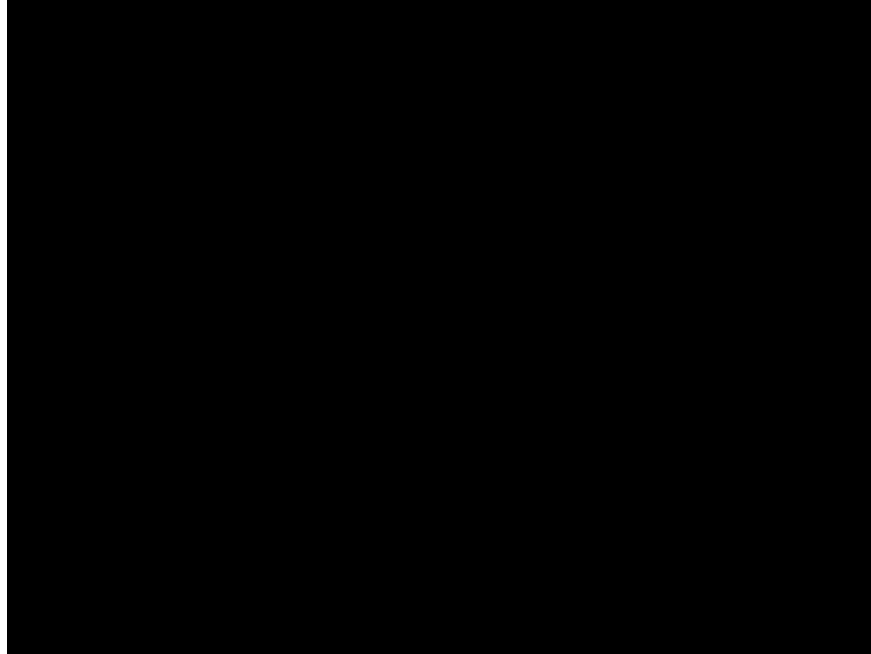


```
Python 3.10.1 (v3.10.1:2cd268a3a9, Dec 6 2021, 14:28:59) [Clang 13.0.0 (clang-1300.0.29.3)] on darwin
Type "help", "copyright", "credits" or "license()"
>>> |
```

Ln: 3 Col: 0



Google Colab



[Colab Link](#)

This week's assignment

- 1. Register at Python Institute**
- 2. Register for Python Level 1 Course**
- 3. Install Python IDE**
- 4. Complete Module 1**
 - a. Fundamentals for Computer Programming
 - b. Difference between compilation & interpretation
 - c. Basic information about Python
 - d. Different types of interfaces

QnA

/stay connected

Join Women Who Code
Python on Slack 🍇

We'll answer your questions
in the event's slack channel
`#beginner-python-stdy-grp`



Find links to join our
community and follow us:
`beacons.ai/WWCodePython`

Thank You!