Python Course Level 1

July - August 2023

About This Course

This course is the first level of the Python course series. It will cover the basics of programming from scratch, and introduce **problem-solving.** The course assumes all students do not have any prior programming knowledge. Although it includes **weekly programming assignments,** do not be discouraged! The aim of the assignments is to challenge you and measure your own **progress** through the material.

By the end of the course, students will be able and be expected to build a small game with a teammate using Python.

In all course material, do remember that the instructors are here to help you, so **do not hesitate** to go to them with your questions and inquiries.

Course Schedule

- The duration of the course is 8 weeks.
- Every week, the students will have:
  - A 1.25 hour lesson
  - A 1.25 hour lab session
  - An assignment consisting of four to five questions (To be submitted via Google Classroom)
- For some lessons, a guest speaker will attend to tell the students about a different aspect of programming careers.
- Throughout the course, students will work in pairs to build a game that will be presented as their final project.

Requirements

- All students will need an internet connection and a computer that they can use for around **four hours a week.**
- We expect students to be highly motivated and able to complete their assignments at their own time, **but on time.**

- Students **do not** need to have any programming knowledge at the time of enrollment.
- This course is **not** exclusive for those who want to study computer science and engineering.

Course Topics

- Intro to programming: What is a computer? What is programming?
- Intro to Python: What is Python and what are its main uses?
- Python syntax and variable types
- Arithmetic operations
- Boolean arithmetic basics
- String manipulation
- Input scanning
- For loops and While loops
- Lists
- Functions
- File Input/Output
- What are the future careers for a programmer
- How students can use programming in different fields

Course Policy

- **Attendance:** Attendance in this course is **mandatory.** Students should attend all the **lectures and labs**. The maximum allowed unexcused absences is two. Failure to show up for more than two sessions and failure to provide a valid excuse will lead to the student being **involuntarily** dropped from class.
- **Grading:**

Assignments	50%
Project	30%
Attendance	10%
Participation	10%

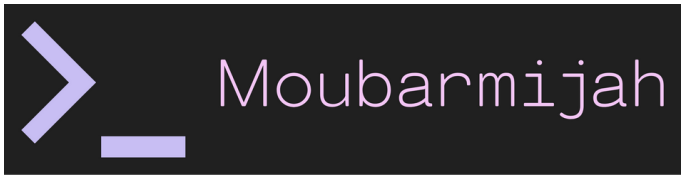
Note that the course's **passing grade is 75%**. Not achieving this score will prevent you from continuing on to the next level.
So make sure to reach out to your instructor whenever you are facing problems in the course.

Questions?

Please don't hesitate to contact us with any questions by:

- emailing us at **code@moubarmijah.com**
- sending us a DM on our Instagram **@moubarmijah.lb**
- contacting us on Whatsapp on the number **+961 76 840 087**

We hope to hear from you soon!
Best,
The Moubarmijah Team



Python Beginner Course - L1

1st Iteration March 2023

About This Course

This course is the first level of the Python Beginner series, it will cover the basics of programming from scratch, and introduce **problem-solving.** The course assumes all students do not have any prior programming knowledge. Although it includes **weekly programming assignments,** do not be discouraged! The aim of the assignments is to challenge you and measure your own **progress** through the material.

By the end of the course, students will be able and be expected to build a small game with a teammate using Python.

In all course material, do remember that the instructors are here to help you, so **do not hesitate** to go to them with your questions and inquiries.

Course Schedule

- The duration of the course is 6 weeks.
- Every week, the students will have:
  - A 1 hour lesson
  - A 1 hour lab session
  - An assignment consisting of three to four questions (To be submitted via Google Classroom)
- For some lessons, a guest speaker will attend to tell the students about a different aspect of programming careers.
- Throughout the course, students will work in pairs to build a game that will be presented as their final project.

Requirements

- All students will need an internet connection and a computer that they can use for around **four hours a week.**
- We expect students to be highly motivated and able to complete their assignments at their own time, **but on time.**

- Students **do not** need to have any programming knowledge at the time of enrollment.
- This course is **not** exclusive for those who want to study computer science and engineering.
- This course is for **women only in grades 10, 11, or 12 in high school.**

Course Topics

- Intro to programming: What is a computer? What is programming?
- Intro to Python: What is Python and what are its main uses?
- Python syntax and variable types
- Arithmetic operations
- Boolean arithmetic basics
- String manipulation
- Input scanning
- For loops
- Lists
- What are the future careers for a programmer
- How students can use programming in different fields

Questions?

Please don't hesitate to contact us with any questions by:

- emailing us at **moubarmijah.lb@gmail.com**
- sending us a DM on our Instagram **@moubarmijah.lb**

We hope to hear from you soon!
Best,
The Moubarmijah Team

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