

# Programming

## Lesson1 - Programming الدرس الأول - البرمجة

Saeed Isa

# Outlines

- ▶ Introduction
- ▶ What is programming ?
- ▶ Programming language
- ▶ Python
- ▶ Course details

# Introduction

- ▶ Tutor: Saeed Isa
  - ▶ Majd El-Kurum
  - ▶ Software engineer at Intel
  - ▶ Graduate of Technion university
  - ▶ Details:
    - ▶ Email: saeed.isa90@gmail.com
    - ▶ Instagram: saeedisa90
- ▶ Course:
  - ▶ Programming
  - ▶ Python

# What is programming?



- ▶ *Programming is a way to “instruct the computer to perform various tasks”.*
  - ▶ *Process of creating the instructions*
  - ▶ *Instructions tell the computer how to perform a task*
- ▶ Instructions are written using programming language
  - ▶ 700+ programming language

# Programming language

- ▶ Consists of instructions
- ▶ Readable and Understandable
- ▶ At the end → Compiled to computer language

# Syntax vs Semantics

- ▶ **Semantics** is about whether or not the sentence has a valid meaning
- ▶ **Syntax** refers to the structure of a language

# Python

- ▶ Top 3 - programming language popularity (According to the [TIOBE index](#))
- ▶ Powerful
- ▶ Fast
- ▶ Easy to learn
- ▶ Open
- ▶ ...

# Course details

- ▶ Environment setup
  - ▶ Python + PyCharm
- ▶ Programming language concepts and Python python python 😊
  - ▶ Variables
  - ▶ Outputs & Inputs
  - ▶ Conditional statements (If else), loops
  - ▶ Functions
  - ▶ List
  - ▶ Class
  - ▶ ...



# Environment setup

- ▶ Download Python/Anaconda

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

- ▶ <https://www.anaconda.com/products/individual>

- ▶ Download PyCharm and Install

- ▶ <https://www.jetbrains.com/pycharm/download/#section=windows>

**Download the latest version for Windows**

Download Python 3.8.3

Windows 

Python 3.7

64-Bit Graphical Installer (466 MB)

**Community**

For pure Python development

Download

Free, open-source

# Lets try...😊

- ▶ Open pycharm
  - ▶ New project: programming
- ▶ Go to python console
  - ▶ Write: `print('Welcome')`
- ▶ Create new file `example.py`

“

Thank you 😊!

”

Stay tuned for more!