**Introduction to python**

**Description:** As Python has become a trend in technology industry, we offer this course to 5 – 8th grade students to bring up their interests in Python. This course is an introduction to Python for students with no prior programming experience and this 10-week course will teach the fundamentals of programming of Python. By the end of the course, students will design their own games as their final project under the help of the instructor. The class will use the Python 3.5 programming language.

**Prerequisite:** None

**Instructor:** Rick Chen

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**Outline:**

**Week 1:** Installation, Variables, Operators

**Week 2:** Notebook, Lists, Tuples, Dictionaries

**Week 3:** Control flow

**Week 4:** Loops

**Week 5:** Functions

**Week 6:** Nested functions

**Week 7:** Library importing, Turtle graphics basics

**Week 8:** Graphic animation

**Week 9:** Final project

**Week 10:** Final project