**Introduction to PYTHON**

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***Overview***

**This class will introduce students to the basic concepts of python programming with emphasis on hands on coding in each section. This class is basically designed to learn by coding and uses an online IDE and Python shell for file I/O. This class also includes designing in Python Graphics called turtle and at the end coding projects based on the concepts already learned.**

1. **Introduction**
2. **Variables & Data types**
   1. Strings
   2. Numbers
   3. Lists
   4. Tuple
   5. Dictionary
3. **Flow of Control**
   1. While loop
   2. For loop
   3. If-else
   4. If-elif
4. **Functions**
5. **Data structure**
   1. Bubble sorting
   2. Searching
   3. Swapping
   4. Queue
   5. Stack
   6. DE queue
6. **File I/O**
7. Programs using File I/O and Lists
8. **Turtle Graphics**
9. **Projects**
10. **Small Programs to cover all concepts**