Learningescalator Python for Beginners Course

July 18-22, 2022

Course Objectives and Rationale:

Welcome! This course is designed for students who have some experience with programming languages such as Scratch, Java, etc.

Learning Points:

Here is a schedule of our daily activities:

1. **Variables**
   - Input and output
   - Mathematical operators
2. **Decisions**
   - Boolean expressions
   - If/else statements
3. **Loops**
   - For loops and while loops
4. **Strings**
   - String functions
5. **Project Day**
   - Mini-project incorporating all the skills we learned in the course

Class Format:

In this course, students will first be taught about the learning point with demonstrations and examples from the instructor. Students will then be given an exercise to practice that skill, as well as problems to solve by coding a program.

Optional homework will be assigned every day based on what we learned in class, and it is recommended for students to try it out. At the beginning of each class, we will spend around 10 minutes going through the homework from the previous day, so students are welcome to share and present their solutions at this time.