# EECS10 Discussion Week3

TA: Emad Arasteh
**emalekza@uci.edu**
**eecs10@eecs.uci.edu**

Office Hours: Fri, 8:00-9:00am EH 3404

University of California, Irvine

# Operators (cont.)

- Augmented assignment
  - +=, -=, *=, /=, %=, <<=, >>=, |=, &=

- C provides special operators
  - Increment operator: ++
    - count++  post-increment
    - ++count  pre-increment

  - Decrement operator: --
    - count--  post-decrement
    - --count  pre-decrement

  - pre-increment/decrement
    - Value returned is the incremented/decremented (new) value

  - post-increment/decrement
    - Value returned is the original (old) value

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# Repetition statements

- Machines are extremely efficient in performing repetitive tasks.

- Using *while* statement is one way to instruct the machine to perform the repetitive tasks.

- while ( condition) {
      loop body
  }

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# Assignment 4 Part 1

- Rabbit Ecosystem and Demography
    - For each iteration: old_value = new_value;
- Bonus part: calculate minimum and maximum
- Let's now do some coding by writing a program to calculate monthly payment for an amortized loan with an annual interest rate using a simple model.

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# Assignment 4 Part 2

- Guess the Age
  - Use rand() function to generate random ages.
- Let's do more coding by writing a program to generate random number between 0 to 1999!

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