

**Summit Singh Thakur (st866)**

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**CS-171-C, Lab Section 065**

## **Homework 1 Documentation**

### **Program 1:**

- Enter the initial tuition amount.
- Enter the yearly tuition percentage rate of increase.
- The program will give output of the tuition for each of the 5 years including total tuition.
- The program uses `setfill('0')` and `setw(2)` to fill the 0's in the decimals.
- The program uses basic algebra to calculate tuition for 5 years.

### **Program 2:**

- Enter the fluid ounces that you want to convert to another units.
- The program will give output for the given fluid ounces amount into barrels, gallons, quarts, pints, cups, gills and tablespoons.
- This program uses basic algebra, division and remainder to calculate the fluid ounces in another units.

### **Extra Credit:**

- Enter the current time in Philadelphia in 24 hours format (example: 1440).
- The program will give output of the current time in Honolulu, Seattle, London, Moscow, Hong Kong, and Auckland according to Philadelphia.
- The program uses basic algebra to calculate the time in different zones.