**Project 1**

**Introduction to the Lab Environment**

**EE 371 AC**

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# Abstract

In this part of the lab, we were introduced to the CodeBlocks learning environment for developing C code. We created a C program that functions as a currency exchange calculator.

# Introduction

A currency conversion calculator is an important tool to have at hand with the increasing global economy coupled with lower airfare. To approach this problem, we created a C program with a simple user interface that allows to convert currency from US dollars to the desired foreign currency. In addition to that, it also lets the user know the price of a good old bottle of corona in the foreign currency.

# Inputs to Calculator

The inputs to the calculator command line are as follows:

1. Amount in US Dollars/ Foreign Currency
2. The current exchange rate for the foreign currency
3. Number (1) if currency is converted from US Dollars to Foreign Currency
4. Number (2) if currency is converted from Foreign Currency to US Dollars

# Outputs from Calculator

The C program outputs to the stdout (command line terminal or IDE developing environment console). If the user chooses option 1, the calculator prints the value of the foreign currency after conversion from the US Dollars with the given exchange rate along with the price of beer in foreign currency. If the user chooses option 2, the calculator prints the value of US dollars after converting it from foreign currency. If the inputs to the program were invalid, the calculator prints an error message.

# Major Functions

This program contains three major functions: