

## **CMPE 230 Systems Programming**

### **Homework 3**

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Our program uses QTableWidgetItem to form the visual template of our data table. We use two stage process utilizing two separate internet connections to form an answer. We are given a list of symbols or names of coins, so we need to extract their ids first. For this, we first abstract data from <https://api.coingecko.com/api/v3/coins/list>. We parse the long list in this site through regex and put the <id> - <name/symbol> pair to a QMap for later access in the second stage of our program. For the second stage of our program, we first form an URL from scratch to access coin data for each individual coin-id pair. We parse the info string in this URL we form via regex to extract the numerical data of coin and set the table in-place. We execute this process one-by-one for each individual coin mapped. Our program expects a non-erroneous input, otherwise fails execution.