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CISC 3140

April 3, 2021

Lab 7

## Version

The version I used is MIT/GNU Scheme via DrRacket on Ubuntu. The standard I used is R5Rs.

# Description

The problem I decided to work on is converting between currencies with exchange rates. My inputs were the currency I wanted to convert from and the exchange rate. I decided to input exchange rate because they are constantly changing. My outputs were the currency I wanted to get converted from the initial currency. Inputs included exchangerate, dollars, euros, and pounds.

### Solution

To get my solutions, I first inputted the currency amount I needed to be converted and inputted the exchange rate. I would multiply both variables as a formula to output the converted currency.

### References

https://icem.folkwang-uni.de/~finnendahl/cm\_kurse/doc/schintro/schintro\_102.html https://www.youtube.com/watch?v=AqBxU-Zmx00&t=459s

#### Source code

(Enter dollar amount to convert to euro)
(define dollar (read))
'(Enter exchange rate)
(define exchangerate (read))
'(dollar =)
(display dollar)(newline)
'(Exchange Rate =)
(display exchangerate)(newline)
'(dollar to euro is =)
(* dollar exchangerate)
,

```
'(Enter euro amount to convert to dollar)
(define euro (read))
'(Enter exchange rate)
(define exchangerate (read))
'(euro =)
(display euro)(newline)
'(Exchange Rate =)
(display exchangerate)(newline)
'(euro to dollar is =)
(* euro exchangerate)
'(Enter dollar amount to convert to pound sterling)
(define dollar (read))
'(Enter exchange rate)
(define exchangerate (read))
'(dollar =)
(display dollar)(newline)
'(Exchange Rate =)
(display exchangerate)(newline)
'(dollar to pound is =)
(* dollar exchangerate)
'(Enter pound amount to convert to dollar)
(define pound (read))
'(Enter exchange rate)
(define exchangerate (read))
'(pound =)
(display pound)(newline)
'(Exchange Rate =)
(display exchangerate)(newline)
```

```
'(pound to dollar is =)

(* pound exchangerate)
```

### Output

```
Welcome to <a href="DrRacket">DrRacket</a>, version 7.2 [3m].
Language: R5RS; memory limit: 128 MB.
(enter dollar amount to convert to euro)
100
(enter exchange rate)
0.85
(dollar =)
100
(exchange rate =)
0.85
(dollar to euro is =)
85.0
(enter euro amount to convert to dollar)
(enter exchange rate)
1.18
(euro =)
50
(exchange rate =)
1.18
(euro to dollar is =)
59.0
(enter dollar amount to convert to pound sterling)
75
(enter exchange rate)
0.72
(dollar =)
75
(exchange rate =)
0.72
(dollar to pound is =)
54.0
```