

Assignment 5

3 October 2012

Due Monday 8 October at 1am.

The purpose of this assignment is to practice using loops.

You will write a unit conversion program where the user can specify the parameters of a conversion table – what value it starts with, where it ends, and how much to increase each time.

Below are some sample runs:

```
Enter start: 1.5
Enter stop: 2.5
Enter step: 0.2
```

```
Miles  Kilometers
  1.5   2.41401
  1.7   2.73588
  1.9   3.05775
  2.1   3.37961
  2.3   3.70148
```

Another run:

```
Enter start: 10.2
Enter stop: 20
Enter step: 3
```

```
Miles  Kilometers
 10.2   16.4153
 13.2   21.2433
 16.2   26.0713
 19.2   30.8993
```

You should do some simple error-checking:

```
Enter start: 19
Enter stop: 0
ERROR: stop must be greater than start.
```

```
Enter start: 7
Enter stop: 24
Enter step: 0
ERROR: step must be greater than zero.
```

Save your program to `a05/table.cpp` and sync with git.