

Simple programming structures

Use the *helloworld* program as a base for the exercises, you will need to check out the pi program and the general Monte Carlo integration program to see how the random numbers work.

1. Take the helloworld program
 - (a) Compile and run it
 - (b) Add a for loop so that program prints

```
Hello world 1
Hello world 2
Hello world 3
```

2. Change your looping hello world code so that it prints

```
0 Monday
2 Wednesday
4 Friday
```

3. Change your looping helloworld program so that it can print n random numbers between 5 and 20.
4. Calculate the running sum of these random numbers and print out the cumulative sum, the result may look like this:

```
16.3549
29.7644
45.6323
63.1727
```