Exercise 5.2.

Use the register-machine language to describe the iterative factorial machine of exercise 5.1.

Answer.

The factorial machine is described as follows:

```
(controller
 test-counter
   (test (op >) (reg counter) (const n))
   (branch (label factorial-done))
   (assign product (op *) (reg product) (reg counter))
   (assign counter (op +) (reg counter) (const 1))
   (goto (label test-counter))
 factorial-done)
```