Test Program Jason R. Fruit

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Introduction

This test program prints the word "hello", followed by the name of the operating system as understood by Python. It is implemented in Python and uses the os module. It builds the message string in two different ways, and writes separate versions of the program to two different files.

Implementation

Output files

This document contains the makings of two files; the first, test.py, uses simple string concatenation to build its output message:

```
test.py\left(1\right) 
 Import the os module (3) 
 Get the OS description (4) 
 Construct the message with Concatenation (5) 
 Print the message (7)
```

The second uses string substitution:

```
test2.py \ (2) Import the os module (3) Get the OS description (4) Construct the message with Substitution (6)
```

```
Print the message (7)
```

Retrieving the OS description

First we must import the os module so we can learn about the OS:

Building the message

Now, we're ready for the meat of the application: concatenating two strings:

```
Construct the message with Concatenation (5)

msg = "Hello, " + os_name + "!"

Used by: test.py (1)

But wait! Is there a better way? Using string substitution might be better:

Construct the message with Substitution (6)

msg = "Hello, %s!" % os_name

Used by: test2.py (2)

We'll use the first of these methods in test.py, and the other in test2.py.
```

Printing the message

Finally, we print the message out for the user to see. Hopefully, a cheery greeting will make them happy to know what operating system they have:

```
Print the message (7)
print msg
Used by: test.py (1); test2.py (2)
```