

Desired Output For Project 5

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===== SPANKISH PROGRAM STARTING =====
Initializing Thread Scheduler...
Initializing Idle Process...
Initializing Process Manager...
Initializing Thread Manager...
Initializing Frame Manager...
AllocateRandomFrames called.  NUMBER_OF_PHYSICAL_PAGE_FRAMES = 100
Initializing Disk Driver...
Initializing Serial Driver...
Serial handler thread running...
Initializing File Manager...
Loading initial program...
User-level program 'TestProgram1' is running...

***** Testing Syscall Parameter Passing *****

***** About to call Sys_Yield...
***** Should print:
*****     Handle_Sys_Yield invoked!

Handle_Sys_Yield invoked!

***** About to call Sys_Fork...
***** Should print:
*****     Handle_Sys_Fork invoked!

Handle_Sys_Fork invoked!

***** About to call Sys_Join...
***** Should print:
*****     Handle_Sys_Join invoked!
*****     processID = 1111

Handle_Sys_Join invoked!
processID = 1111

***** About to call Sys_Create...
***** Should print:
*****     Handle_Sys_Create invoked!
*****     virt addr of filename = 0x0000BFF8
*****     filename = MyFileName

Handle_Sys_Create invoked!
virt addr of filename = 0x0000BFF8
filename = MyFileName

***** About to call Sys_Open...
***** Should print:
*****     Handle_Sys_Open invoked!
*****     virt addr of filename = 0x0000BFF8
*****     filename = MyFileName
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Handle_Sys_Open invoked!
virt addr of filename = 0x0000BFF8
filename = MyFileName

***** About to call Sys_Read...
***** Should print:
*****   Handle_Sys_Read invoked!
*****   fileDesc = 2222
*****   virt addr of buffer = 0x0000B0C4
*****   sizeInBytes = 3333

Handle_Sys_Read invoked!
fileDesc = 2222
virt addr of buffer = 0x0000B0C4
sizeInBytes = 3333

***** About to call Sys_Write...
***** Should print:
*****   Handle_Sys_Write invoked!
*****   fileDesc = 4444
*****   virt addr of buffer = 0x0000B0C4
*****   sizeInBytes = 5555

Handle_Sys_Write invoked!
fileDesc = 4444
virt addr of buffer = 0x0000B0C4
sizeInBytes = 5555

***** About to call Sys_Seek...
***** Should print:
*****   Handle_Sys_Seek invoked!
*****   fileDesc = 6666
*****   newCurrentPos = 7777

Handle_Sys_Seek invoked!
fileDesc = 6666
newCurrentPos = 7777

***** About to call Sys_Close...
***** Should print:
*****   Handle_Sys_Close invoked!
*****   fileDesc = 8888

Handle_Sys_Close invoked!
fileDesc = 8888

***** About to call Sys_Exit...
***** Should print:
*****   Handle_Sys_Exit invoked!
*****   fileDesc = 9999

Handle_Sys_Exit invoked!
returnStatus = 9999

***** Syscall Test Complete *****

***** Testing Exec Syscall *****
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***** About to call Sys_Exec with a non-existent file...
***** Should print:
*****      Okay
```

Okay

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***** About to call Sys_Exec with an overly long file name...
***** Should print:
*****      Okay
```

Okay

```
***** About to perform a successful Exec and jump to TestProgram2...
***** Should print:
*****      User-level program 'TestProgram2' is running!
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User-level program 'TestProgram2' is running!

```
***** About to call Sys_Shutdown...
***** Should print:
*****      FATAL ERROR in UserProgram: "Syscall 'Shutdown' was invoked
by a user thread" -- TERMINATING!
```

FATAL ERROR in UserProgram: "Syscall 'Shutdown' was invoked by a user thread" -- TERMINATING!

(To find out where execution was when the problem arose, type 'st' at the emulator prompt.)

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===== SPANKISH PROGRAM TERMINATION
=====
```