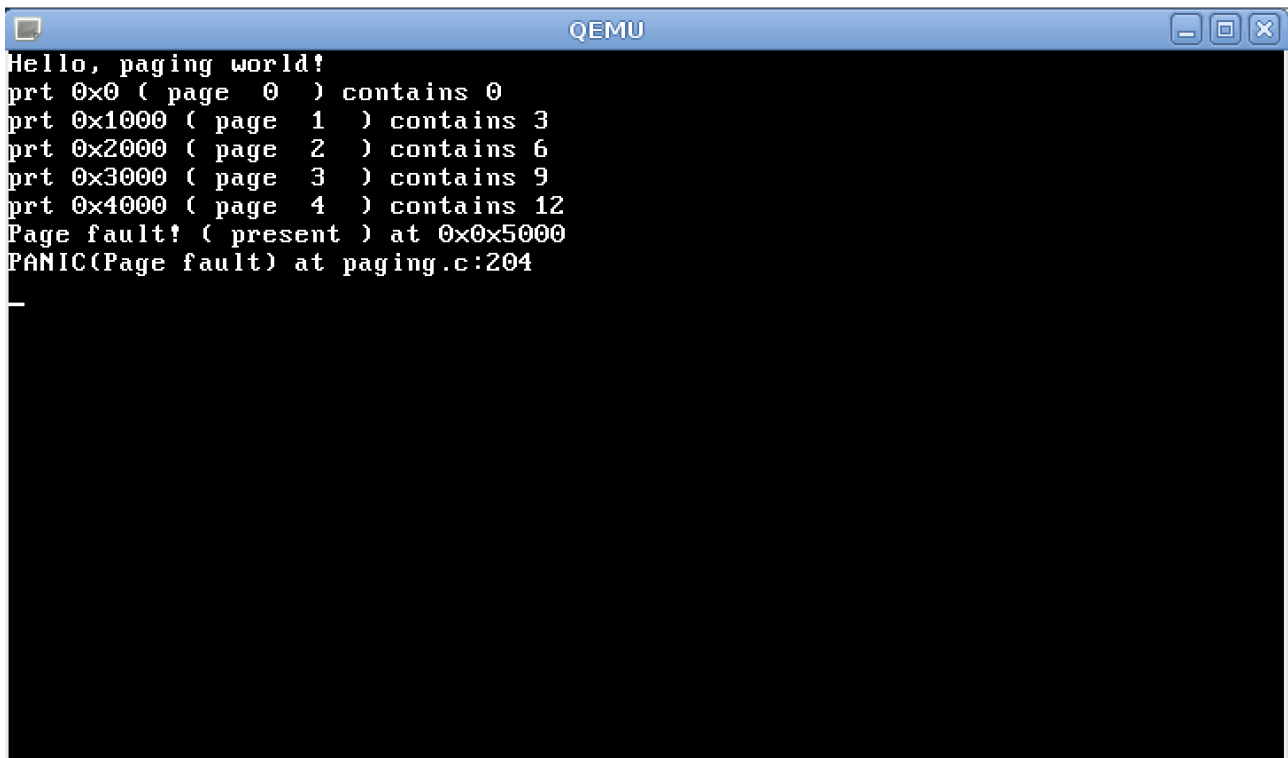


EXERCISE 2:

Second exercise asked to modify the entry 5 of the page table in way that the page 5 was not present in the page table.

In practise this modify has been done because we wanted to see that the kernel went in page fault when it was trying to access the 5 page.

A screenshot of a QEMU terminal window. The window has a blue title bar with the text "QEMU" and standard window control buttons (minimize, maximize, close). The terminal output is as follows:

```
Hello, paging world!
prt 0x0 ( page 0 ) contains 0
prt 0x1000 ( page 1 ) contains 3
prt 0x2000 ( page 2 ) contains 6
prt 0x3000 ( page 3 ) contains 9
prt 0x4000 ( page 4 ) contains 12
Page fault! ( present ) at 0x0x5000
PANIC(Page fault) at paging.c:204
```

How we can see in the figure below, through the debugger we changed the value by using the following command:

```
p *kernel_directory->tables[0]->pages[5].present = 0
```

```
Breakpoint 1, main (mboot_ptr=0x2d0c0) at main.c:36
(gdb) p kernel_directory->tables[0]->pages[5].present = 0
$1 = 0
```