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Networks Lab 7

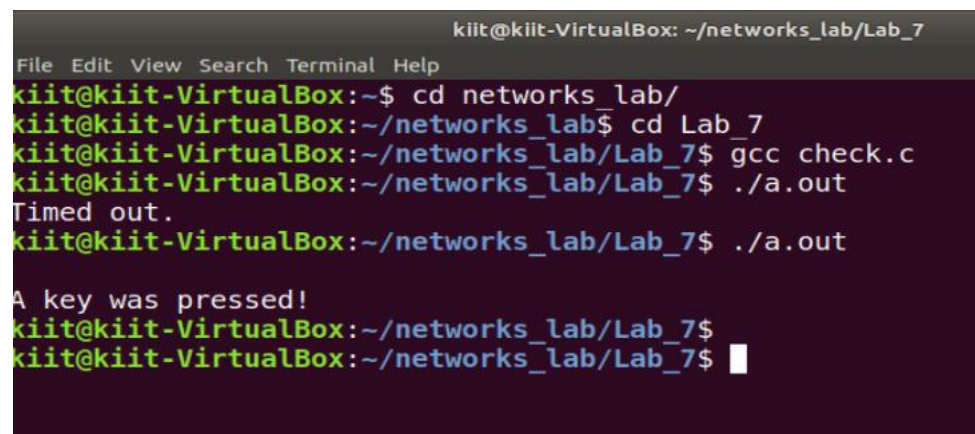
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1. IO Multiplexing. Check if a key is pressed or not within a time duration.

Code:

```
#include<stdio.h>
#include<sys/time.h>
#define STDIN 0 // file descriptor for standard input
int main(void) {
    struct timeval tv;
    fd_set readfds;
    tv.tv_sec = 2;
    tv.tv_usec = 500000;
    FD_ZERO(&readfds);
    FD_SET(STDIN, &readfds);
    // don't care about writefds and exceptfds:
    select(STDIN+1, &readfds, NULL, NULL, &tv);
    if (FD_ISSET(STDIN, &readfds))
        printf("A key was pressed!\n");
    else
        printf("Timed out.\n");
    return 0;
}
```

Output:



```
kiit@kiit-VirtualBox: ~/networks_lab/Lab_7
File Edit View Search Terminal Help
kiit@kiit-VirtualBox:~$ cd networks_lab/
kiit@kiit-VirtualBox:~/networks_lab$ cd Lab_7
kiit@kiit-VirtualBox:~/networks_lab/Lab_7$ gcc check.c
kiit@kiit-VirtualBox:~/networks_lab/Lab_7$ ./a.out
Timed out.
kiit@kiit-VirtualBox:~/networks_lab/Lab_7$ ./a.out
A key was pressed!
kiit@kiit-VirtualBox:~/networks_lab/Lab_7$
kiit@kiit-VirtualBox:~/networks_lab/Lab_7$
```