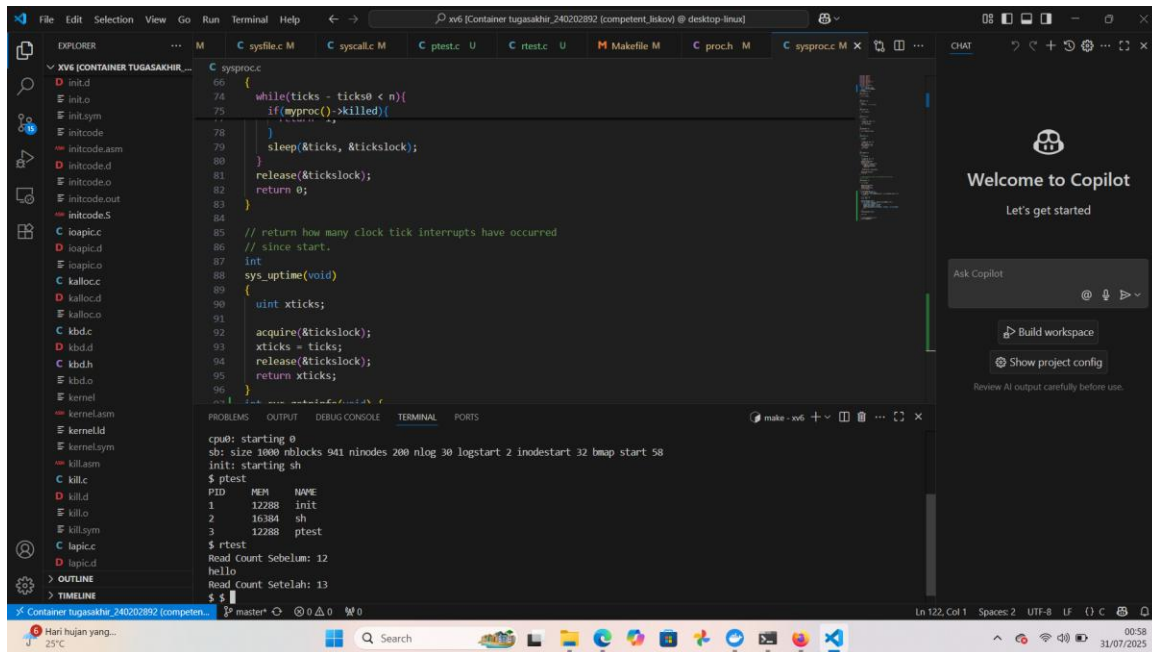


NAMA: Abu Zaki

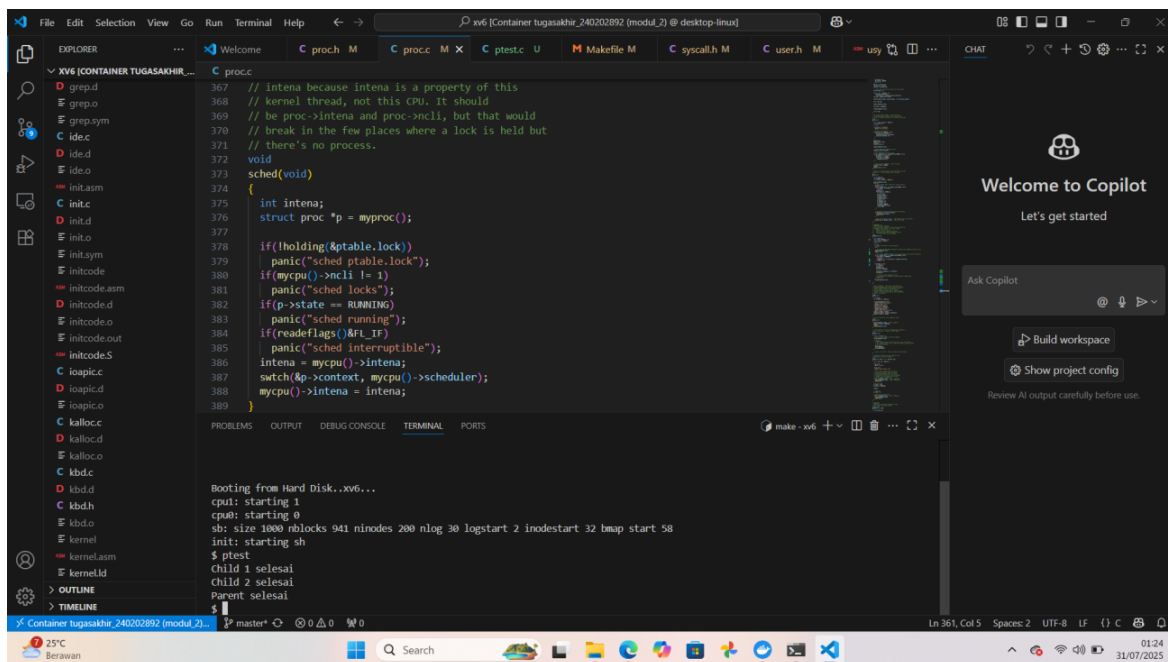
NIM: 240202892

KELAS: 2IKRB

Hail modul 1



Hasil modul 2



## Hasil modul 3

The screenshot shows the Visual Studio Code interface with a project named 'xv6 [CONTAINER TUGASAKHIR\_240202892 (modul\_2)] @ desktop-linux'. The Explorer panel on the left lists various files, including 'proc.c'. The main editor displays the code for 'proc.c', which is a kernel module. The code includes comments and function definitions for 'proc' and 'sched'. The terminal at the bottom shows the output of the 'make' command, indicating that the module is being built. The status bar at the bottom shows the file is at line 361, column 5, with 2 spaces and UTF-8 encoding.

```
File Edit Selection View Go Run Terminal Help
xv6 [CONTAINER TUGASAKHIR_240202892 (modul_2)] @ desktop-linux
C proc.c
367 // intena because intena is a property of this
368 // kernel thread, not this CPU. It should
369 // be proc->intena and proc->ncli, but that would
370 // break in the few places where a lock is held but
371 // there's no process.
372 void
373 sched(void)
374 {
375     int intena;
376     struct proc *p = myproc();
377
378     if(!holding(&ptable.lock))
379         panic("sched ptable.lock");
380     if(mycpu()->ncli != 1)
381         panic("sched locks");
382     if(p->state == RUNNING)
383         panic("sched running");
384     if(readeflags() & IF_INTERRUPTIBLE)
385         panic("sched interruptible");
386     intena = mycpu()->intena;
387     switch(&p->context, mycpu()->scheduler);
388     mycpu()->intena = intena;
389 }

Bootling from Hard Disk..xv6...
cpu0: starting 1
cpu0: starting 0
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58
init: starting sh
$ ptest
Child 1 selesai
Child 2 selesai
Parent selesai
$
```

The screenshot shows the Visual Studio Code interface with a project named 'xv6 [CONTAINER TUGASAKHIR\_240202892 (modul\_3)] @ desktop-linux'. The Explorer panel on the left lists various files, including 'cowtest.c'. The main editor displays the code for 'cowtest.c', which is a kernel module. The code includes comments and function definitions for 'cowtest'. The terminal at the bottom shows the output of the 'make' command, indicating that the module is being built. The status bar at the bottom shows the file is at line 33, column 2, with 4 spaces and UTF-8 encoding.

```
File Edit Selection View Go Run Terminal Help
xv6 [CONTAINER TUGASAKHIR_240202892 (modul_3)] @ desktop-linux
C cowtest.c
1 #include "types.h"
2 #include "stat.h"
3 #include "user.h"
4
5 int
6 main(void)
7 {
8     // printf(1, "cow Fork Test\n"); // Dihapus/dikomentari
9
10    char *p = sbrk(4096);
11    if(p == (char*)-1){
12        printf(1, "sbrk failed\n");
13        exit(1);
14    }
15
16    p[0] = 'X';
17    // printf(1, "Before fork: p[0] = %c\n", p[0]); // Dihapus/dikomentari
18
19    int pid = fork();
20    if(pid == 0){
21        // Child process
22        // printf(1, "Child: p[0] before write = %c\n", p[0]); // Dihapus/dikomentari
23        p[0] = 'Y'; // This should trigger cow
24    }
25
26    // Parent process
27    // printf(1, "Parent: p[0] = %c\n", p[0]); // Dihapus/dikomentari
28
29    waitpid(pid, 0, 0);
30
31    printf(1, "Program finished successfully\n");
32}

sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58
init: starting sh
$ shmtest
Program started with FILE
Initial data written to file
PCahrenitld wpairtoinge sfosr schariteld
d
Child reads: A
Child wrote: B
Child finished
Parent reads: B
Program finished successfully
$
```