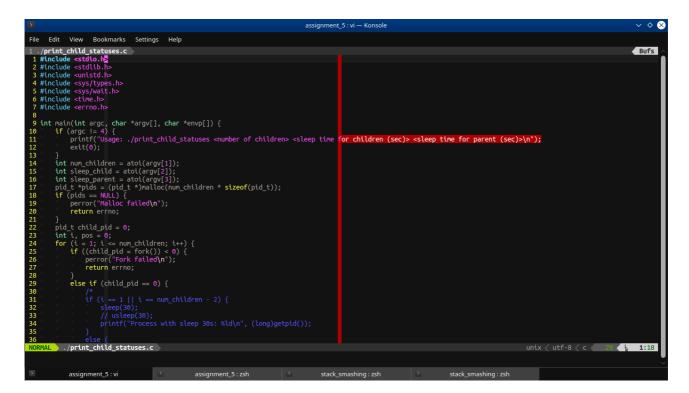
Assignment 5

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1. The parent starts as many child processes as to the value of its integer command line argument. The child processes simply sleep for the time specified by the argument, then exit. After starting all the children, the parent process does not wait for them immediately, but after a time specified by command line argument, checks the status of all terminated children, print the list of non terminated children and then terminates itself.

Code-



```
assignment,5:vi — Konsole

| Steep | S
```

Output-

```
Intransyelliranay -/Documents/sem7/AUP/assignment 5 ./print_child_statuses 5 2 2

Process with pid 23956 terminated with status 1

Process with pid 23957 terminated with status 3

Process with pid 23958 terminated with status 3

Process with pid 23959 terminated with status 4

Process with pid 23959 terminated with status 5

Intransyelliranay -/Documents/sem7/AUP/assignment 5 ./print_child_statuses 10 5 1

Process with pid 24000 not yet terminated

Process with pid 24010 not yet terminated

Process with pid 24011 not yet terminated

Process with pid 24012 not yet terminated

Process with pid 24012 not yet terminated

Process with pid 24014 not yet terminated

Process with pid 24015 not yet terminated

Process with pid 24016 not yet terminated

Process with pid 24017 not yet terminated with status 2

Intransyelliranay -/Documents/sem7/AUP/assignment 5

Intransyelliranay -/Documents/sem7/AUP/assignment 5

Intransyelliranay -/Documents/sem7/AUP/assignment 5
```

(After uncommenting the block comment in the code and commenting out the call to sleep() below it)

```
Intrama/@Hitmany -/Documents/sen7/AUP/assignment 5 ./print_child_statuses 25 1 2

Process with pid 24348 not yet terminated Process with pid 24348 terminated with status 2

Process with pid 24350 terminated with status 4

Process with pid 24351 terminated with status 4

Process with pid 24351 terminated with status 6

Process with pid 24352 terminated with status 6

Process with pid 24355 terminated with status 7

Process with pid 24356 terminated with status 8

Process with pid 24356 terminated with status 10

Process with pid 24356 terminated with status 12

Process with pid 24365 terminated with status 13

Process with pid 24365 terminated with status 14

Process with pid 24365 terminated with status 15

Process with pid 24365 terminated with status 16

Process with pid 24365 terminated with status 17

Process with pid 24366 terminated with status 19

Process with pid 24367 terminated with status 20

Process with pid 24367 terminated with status 21

Process with pid 24367 terminated with status 22

Process with pid 24371 terminated with status 25

Introma@Hitmany -/Documents/sen7/AUP/assignment 5

Process with pid 24372 terminated with status 25

Introma@Hitmany -/Documents/sen7/AUP/assignment 5
```

2. Assume that a process installs an exit handler and then forks a child. Does the child inherit the exit handler? Demonstrate.

Code-

```
| Second | S
```

Output-

```
ntramay@Wiramay -/Documents/sem7/AUP/assignment 5 ./inherit_exit_handler
Parent is done
In the exit_handler
Chtld is done
In the exit_handler
```