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Modul 8

1. fork.c

compile c gcc online

Language: C (gcc) Editor: CodeMirror Layout: Vertical

```c
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/types.h>
int main () {
    pid_t pid;
    int x = 5;
    pid = fork();
    x++;
    if (pid < 0)
    {
        printf("Process creation error"); exit(-1);
    }
    else if (pid == 0)
    {
        printf("Child process");
        printf("\nProcess id is %d", getpid());
        printf("\nValue of x is %d", x);
        printf("\nProcess id of shell is %d\n", getppid());
    }
}
```

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Compilation time: 0.13 sec, absolute running time: 0.07 sec, cpu time: 0.02 sec, memory peak: 3 Mb, absolute service time: 0,2 sec

```
Child process
Process id is 5284
Value of x is 6
Process id of shell is 1
```

2. wait.c

Language: C (gcc) Editor: CodeMirror Layout: Vertical

```c
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/wait.h>
int main () {
    int i, status;
    pid_t pid;
    pid = fork();

    if (pid < 0) {
        printf("\nPembuatan Proses gagal\n");
        exit(-1);
    }
    else if (pid > 0)
    {
        wait(NULL);
        printf ("\nParent starts\nNomor Genap:");
        for (i=2;i<= 10;i+=2)
        printf ("%3d",i);
        printf("\nParent ends\n");
        }
    else if (pid == 0)
    {
        printf ("Child starts\nNomor Ganjil:");
        for (i=1;i<10;i+=2)
```

Run it (F8) Save it Show compiler warnings [+] Compiler args [+] Show input Live cooperation Put on a wall F ?

Compilation time: 0.13 sec, absolute running time: 0.08 sec, cpu time: 0.02 sec, memory peak: 3 Mb, absolute service time: 0,31 sec

```
Child starts
Nomor Ganjil:  1  3  5  7  9
Child ends

Parent starts
Nomor Genap:  2  4  6  8 10
Parent ends
```

Language: C (gcc) Editor: CodeMirror Layout: Vertical

```c
int main () {
    int i, status;
    pid_t pid;
    pid = fork();

    if (pid < 0) {
        printf("\nPembuatan Proses gagal\n");
        exit(-1);
    }
    else if (pid > 0)
    {
        wait(NULL);
        printf ("\nParent starts\nNomor Genap:");
        for (i=2;i<= 10;i+=2)
        printf ("%3d",i);
        printf("\nParent ends\n");
        }
    else if (pid == 0)
    {
        printf ("Child starts\nNomor Ganjil:");
        for (i=1;i<10;i+=2)
                printf("%3d",i);
            printf("\nChild ends\n");
    }
}
```

Run it (F8) Save it Show compiler warnings [+] Compiler args [+] Show input Live cooperation Put on a wall F ?

Compilation time: 0.13 sec, absolute running time: 0.08 sec, cpu time: 0.02 sec, memory peak: 3 Mb, absolute service time: 0,31 sec

```
Child starts
Nomor Ganjil:  1  3  5  7  9
Child ends

Parent starts
Nomor Genap:  2  4  6  8 10
Parent ends
```

3. *exec.c*

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Language: C (gcc) Editor: CodeMirror Layout: Vertical

```c
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
#include <stdlib.h>
#include <sys/wait.h>
int main(int argc, char*argv[]) {

    pid_t pid;
    int i;

    if (argc != 3)
    {
        printf("\nInsufficient arguments to load program");
        printf("\nUsage: ./a.out <path> <cmd>\n"); exit(-1);
    }

    switch(pid = fork())
    {
    case -1:
        printf("Fork failed");
        exit(-1);
    case 0:
        printf("Child process\n");
        i = execl(argv[1],argv[2],NULL);
        if (i < 0)
        {
```

Run it (F8) Save it Show compiler warnings [+] Compiler args [+] Show input Live cooperation Put on a wall F ?

Compilation time: 0.13 sec, absolute running time: 0.08 sec, cpu time: 0.02 sec, memory peak: 3 Mb, absolute service time: 0,21 sec

```
Insufficient arguments to load program
Usage: ./a.out <path> <cmd>
```