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## Modul ke - 8

### 1. fork.c

#### compile c gcc online

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

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <unistd.h>
4 #include <sys/types.h>
5 int main () {
6     pid_t pid;
7     int x = 5;
8     pid = fork();
9     x++;
10    if (pid < 0)
11    {
12        printf("Process creation error"); exit(-1);
13    }
14    else if (pid == 0)
15    {
16        printf("Child process");
17        printf("\nProcess id is %d", getpid());
18        printf("\nValue of x is %d", x);
19        printf("\nProcess id of shell is %d\n", getppid());
20    }
21 }
22
```

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: 0.07 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

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <unistd.h>
4 #include <sys/types.h>
5 #include <sys/wait.h>
6 int main () {
7     int i, status;
8     pid_t pid;
9     pid = fork();
10
11    if (pid < 0) {
12        printf("\nPembuatan Proses gagal\n");
13        exit(-1);
14    }
15    else if (pid > 0)
16    {
17        wait(NULL);
18        printf ("\nParent starts\nNomor Genap:");
19        for (i=2;i<= 10;i+=2)
20            printf ("%3d",i);
21        printf("\nParent ends\n");
22    }
23    else if (pid == 0)
24    {
25        printf ("Child starts\nNomor Ganjil:");
26        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

```
6 int main () {
7     int i, status;
8     pid_t pid;
9     pid = fork();
10
11     if (pid < 0) {
12         printf("\nPembuatan Proses gagal\n");
13         exit(-1);
14     }
15     else if (pid > 0)
16     {
17         wait(NULL);
18         printf ("\nParent starts\nNomor Genap:");
19         for (i=2;i<= 10;i+=2)
20             printf ("%3d",i);
21         printf("\nParent ends\n");
22     }
23     else if (pid == 0)
24     {
25         printf ("Child starts\nNomor Ganjil:");
26         for (i=1;i<10;i+=2)
27             printf ("%3d",i);
28         printf("\nChild ends\n");
29     }
30 }
31
```

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

#### compile c gcc online

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

```
1 #include <stdio.h>
2 #include <sys/types.h>
3 #include <unistd.h>
4 #include <stdlib.h>
5 #include <sys/wait.h>
6 int main(int argc, char*argv[]) {
7
8     pid_t pid;
9     int i;
10
11     if (argc != 3)
12     {
13         printf("\nInsufficient arguments to load program");
14         printf("\nUsage: ./a.out <path> <cmd>\n"); exit(-1);
15     }
16
17     switch(pid = fork())
18     {
19     case -1:
20         printf("Fork failed");
21         exit(-1);
22     case 0:
23         printf("Child process\n");
24         i = execl(argv[1],argv[2],NULL);
25         if (i < 0)
26         {

```

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>

