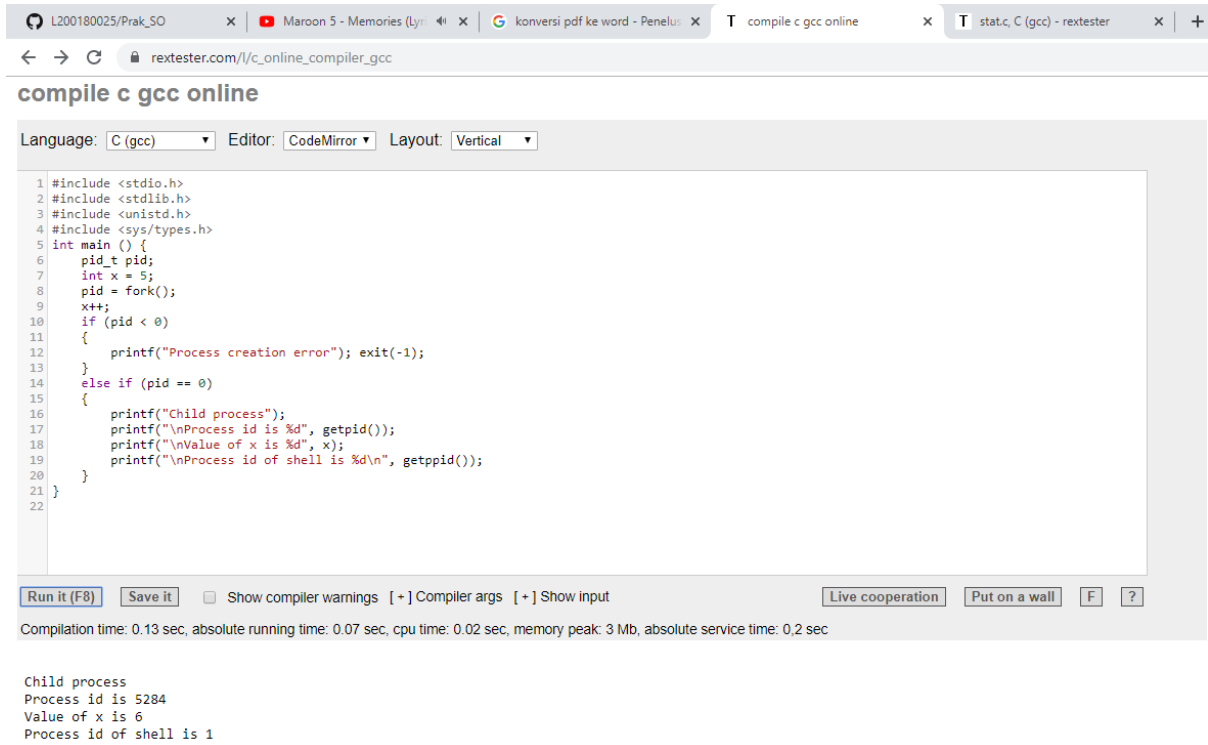


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Kelas : A

1. fork.c



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

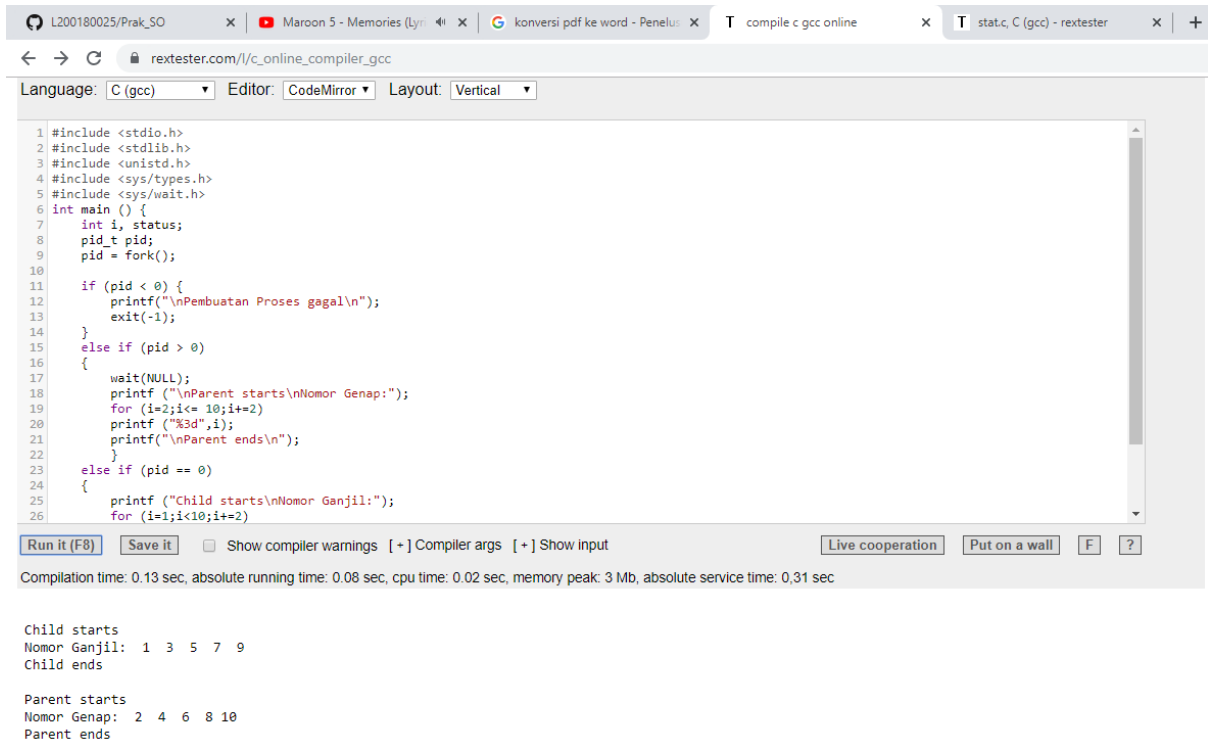
```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <unistd.h>
4 #include <sys/types.h>
5 int main () {
6     pid_t pid;
7     int x = 5;
8     pid = fork();
9     x++;
10    if (pid < 0)
11    {
12        printf("Process creation error"); exit(-1);
13    }
14    else if (pid == 0)
15    {
16        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 ("Parent 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

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>

```

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

```
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         {
27             printf("%s program not loaded using exec system call\n", argv[2]);
28             exit(-1);
29         }
30     default:
31         wait(NULL);
32         printf("Child Terminated\n");
33         exit(0);
34 }
35 }
36
37
```

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>

4. stat.c

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

```
1 #include <stdio.h>
2 #include <sys/stat.h>
3 #include <stdlib.h>
4 #include <time.h>
5
6 int main(int argc, char*argv[]){
7     struct stat
8     file; int n;
9     if (argc != 2)
10     {
11         printf("Usage: ./a.out <filename>\n"); exit(-1);
12     }
13     if ((n = stat(argv[1], &file)) == -1)
14     {
15         perror(argv[1]);
16         exit(-1);
17     }
18     printf("User id : %d\n", file.st_uid);
19     printf("Group id: %d\n", file.st_gid);
20     printf("Block size: %d\n", file.st_blksize);
21     printf("Block allocated: %d\n", file.st_blocks);
22     printf("Inode no. : %d\n", file.st_ino);
23     printf("Last accessed : %s", ctime(&(file.st_atime)));
24     printf("Last modified : %s", ctime (&(file.st_mtime)));
25     printf("File size : %d bytes\n", file.st_size);
26     printf("No. of links : %d\n", file.st_nlink);
27 }
```

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: 0.01 sec, memory peak: 3 Mb, absolute service time: 0.28 sec

Usage: ./a.out <filename>

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

```

22 printf("Inode no. : %d\n", file.st_ino);
23 printf("Last accessed : %s", ctime(&(file.st_atime)));
24 printf("Last modified : %s", ctime (&(file.st_mtime)));
25 printf("File size : %d bytes\n", file.st_size);
26 printf("No. of links : %d\n", file.st_nlink);
27 printf("Permission : ");
28 printf( (S_ISDIR(file.st_mode)) ? "d" : "-");
29 printf( (file.st_mode & S_IRUSR) ? "r" : "-");
30 printf( (file.st_mode & S_IWUSR) ? "w" : "-");
31 printf( (file.st_mode & S_IXUSR) ? "x" : "-");
32 printf( (file.st_mode & S_IRGRP) ? "r" : "-");
33 printf( (file.st_mode & S_IWGRP) ? "w" : "-");
34 printf( (file.st_mode & S_IXGRP) ? "x" : "-");
35 printf( (file.st_mode & S_IROTH) ? "r" : "-");
36 printf( (file.st_mode & S_IWOTH) ? "w" : "-");
37 printf( (file.st_mode & S_IXOTH) ? "x" : "-");
38 printf("\n");
39 if (file.st_mode & S_IFREG)
40 {
41     printf ("File type : Regular\n");
42 }
43 if (file.st_mode & S_IFDIR)
44 {
45     printf("File type: Directory\n");
46 }
47 }
  
```

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: 0.01 sec, memory peak: 3 Mb, absolute service time: 0.28 sec

Usage: ./a.out <filename>

5. dirlist.c

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

```

1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <dirent.h>
4 int main(int argc, char*argv[])
5 {
6     struct dirent *dptr;
7     DIR *dname;
8
9     if (argc != 2)
10     {
11         printf("Usage: ./a.out <dirname>\n");
12         exit(-1);
13     }
14     if ((dname = opendir(argv[1])) == NULL)
15     {
16         perror(argv[1]);
17         exit(-1);
18     }
19     while (dptr=readdir(dname))
20     {
21         printf("%s\n", dptr->d_name);
22     }
23     closedir(dname);
24 }
25
  
```

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: 0.01 sec, memory peak: 3 Mb, absolute service time: 0.29 sec

Usage: ./a.out <dirname>

Menyambung...