Nama: SRI HAJIATI

NIM: L200170103

Kelas: E

1.fork.c

Kode Program

```
activities □ Terminal ▼

ati@ati-VirtualBox: ~

File Edit View Search Terminal Help

GNU nano 2.9.3

finclude <stdio.h>

finclude <stditb.h>

finclude <stditb.h>

finclude <stditb.h>

finclude sunistd.h>

finclude sytypes.h>

int main(){

prid_t pid;

int x = 5;

pid = fork();

x++;

if(pid < 0)

{

printf("Process creation error"); exit(-1);

}

else if (pid == 0)

{

printf("\nProcess id is %d', getpid());

printf("\nProcess id is %d', x);

printf("\nProcess id is %d', yetpid());

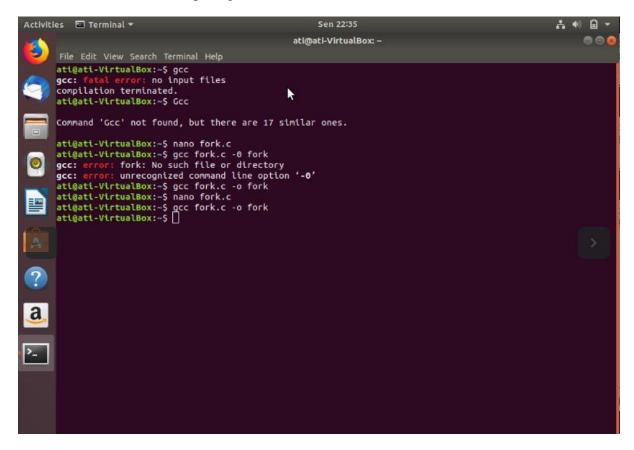
printf("\nProcess id is %d', getpid());

printf("\nProcess id is %d', yetpid());

printf("\nProcess id is %d\n", yetppid());

Activate Wi
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```

Mengecek kode program fork.c ada yang salah tidak menggunakan gcc fork.c –o fork. Jika benar maka akan muncul seperti gambar dibawah ini

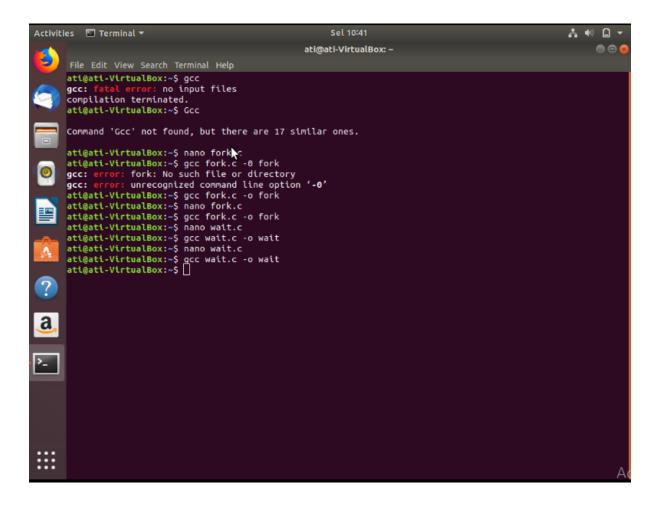


2. wait.c

Kode Program

```
Activities ☑ Terminal ▼
                                                                                              Sel 10:41
                                                                                      ati@ati-VirtualBox: ~
          GNU nano 2.9.3
                                                                                                 wait.c
         #include <stdio.h>
#include <stdib.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);</pre>
                        }
else if(pid > 0)
{
                                    wait(NULL);
printf("\nParent start\nNomor Genap:");
for (l=2;l<=10;l+=2)
    printf ("%3d",i);
printf("\nParent ends\n");</pre>
 a
                        } else if (pid == θ)
                                    ^O Write Out ^W Where Is ^R Read File ^\ Replace
                                                                                                                                ^C Cur Pos
^ Go To Line
          ^G Get Help
```

Cara Mengecek program wait dengan gcc wait.c –o wait. jika benar maka akan muncul seperti gambar di bawah



3.exec.c

Kode Program

```
Activities     Terminal ▼
                                                                                Sel 11:16
                                                                                                                                                A •0 Q •
                                                                         ati@ati-VirtualBox: ~
        File Edit View Search Terminal Help
GNU nano 2.9.3
                                                                                   exec.c
        #include <stdio.h>
#tnclude <sys/types.h>
#include <unistd.h>
#include <stdlib.h>
#include <wait.h>
int main(int argc, char*argv[]){
                    pid_t pid;
int i;
                                                      ×
                    tf (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);
 a
                    case 0:
                               printf("Child process\n");
i = execl(argv[1], argv[2], NULL);
tf (i < 0)</pre>
                                           defauld:
                               wait(NULL);
printf("Child terminated\n");
exit(0);
                                                                     ^O Write Out ^W Where Is
^R Read File ^\ Replace
        ^G Get Help
^X Exit
                                                                                                             ^C Cur Pos M-U Undo
^_ Go To Line M-E Redo
```

Mengecek kode program exec.c ada yang salah tidak menggunakan gcc exect.c –o exec. Jika benar maka akan muncul tampilan dibawah ini

```
Activities ☑ Terminal ▼
                                                                                                 Sel 11:16
                                                                                                                                                                               A 40 G -
                                                                                                                                                                                        00
                                                                                        ati@ati-VirtualBox: ~
           ati@ati-VirtualBox:~$ nano exec.c ati@ati-VirtualBox:~$ gcc exec.c -o exec
          exec.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
main(int argc, char*argv[]){
          exec.c: In function 'main':
exec.c:24:3: warning: missing sentinel in function call [-Wformat=]
    i = execl(argv[1], argv[2], 0);
          ati@ati-VirtualBox:~$ nano exec.c
ati@ati-VirtualBox:~$ gcc exec.c'-o exec
exec.c: In function 'main':
exec.c:24:3: warning: missing sentinel in function call [-Wformat=]
    t = execl(argv[1], argv[2], 0);
           ati@ati-VirtualBox:~$ nano exec.c
           ati@ati-VirtualBox:~$ gcc exec.c -o exec exec.c: In function 'main':
          exec.c:24:7: warning: implicit declaration of function 'exec1'; did you mean 'exec1'? [-Wimplicit-function-declaration]
              i = execl(argv[1], argv[2], 0);
          /tmp/ccCFBEjt.o: In function 'main':
          exec.c:(.text+0xa3): undefined reference to 'exec1'
collect2: error: ld returned 1 exit status
ati@ati-VirtualBox:~$ nano exec.c
ati@ati-VirtualBox:~$ gcc exec.c -o exec
exec.c: In function 'main':
           exec.c:24:3: warning: missing sentinel in function call [-Wformat=]
  i = execl(argv[1], argv[2], 0);
           ati@ati-VirtualBox:~$ nano exec.c
          ati@ati-VirtualBox:~$ nano exec.c
ati@ati-VirtualBox:~$ gcc exec.c -o exec
ati@ati-VirtualBox:~$ nano exec.c
          ati@ati-VirtualBox:~$ qcc exec.c -o exec ati@ati-VirtualBox:~$
```

4. stat.c

Kode Program

```
Sel 22:55
                                                                                                                                                                                                                                                                                                                                                                                                                                  ? •••) 🚉
                                                                                                                                                                                                                    ati@ati-VirtualBox: ~
                          GNU nano 2.9.3
                                                                                                                                                                                                                                                 stat.c
                          #include <stdio.h>
                          #include <sys/stat.h>
#include <stdlib.h>
#include <time.h>
                             int main (int argc, char*argv[]){
struct stat
                                                          file; int n;
if (argc != 2)
    0
                                                                                           printf("Usage: ./a.out <filename>\n"); exit(-1);
                                                            if ((n = stat(argv[1], &file)) == -1)
                                                                                           perror(argv[1]);
                                                                                             exit (-1);

}
printf("User id : %d\n", file.st_uid);
printf("Group id :%d\n", file.st_gid);
printf("Block size : %ld\n", file.st_blksize);
printf("Blocks allocated : %ld\n", file.st_blocks);
printf("Inode no. : %ld\n", file.st_ino);
printf("Last accessed : %s", ctime(&(file.st_atime)));
printf("Last modified : %s", ctime(&(file.st_mtime)));
printf("File size : %ld bytes\n", file.st_size);
printf("No. of links : %ld\n", file.st_nlink);
printf("Permissions : ");
printf( (5 ISDIR(file.st_mode)) ? "d" : "-" );
printf( (file.st_mode & S_IRUSR) ? "r" : "-");
printf( (file.st_mode & S_INUSR) ? "w" : "-");

     a
                                                                                                                                                                                                                                                                                                                                                                                                                          Activate Wi
                                                        printf("Group td :%d\n", file.st_pld);
printf("Block size : %ld\n", file.st_blksize);
printf("Blocks allocated : %ld\n", file.st_blocks);
printf("Inode no. : %ld\n", file.st_ino);
printf("Last accessed : %s", ctime(&(file.st_atime)));
printf("Last modified : %s", ctime(&(file.st_mtime)));
printf("File size : %ld bytes\n", file.st_size);
printf("No. of links : %ld\n", file.st_nlink);
printf("Permissions : ");
printf( (SISDIR(file.st_mode)) ? "d" : "-");
printf( (file.st_mode & SIRUSR) ? "r" : "-");
printf( (file.st_mode & SIRUSR) ? "x" : "-");
printf("\n");
if(file.st_mode & SIRUSR) printf("\n");
if(file.st_mode & SIRUSR) printf("File type : Reguler\n");
    0
    a
                                                                                           printf("File type : Directory\n");
   >_
                         ^G Get Help
                                                                                   ^K Cut Text ^J Justify ^U Uncut Text ^T To Spell
                                                                                                                                                                                                                                                                                                                                                                                     M-U Undo Activate Wi
                                                                                                                                                                                                                                                                                                                           ^C Cur Pos
```

Go To Line M-E Redo

^\ Replace

Mengecek kode program stat.c ada yang salah tidak menggunakan gcc stat.c -o stat

5.Kode Program dirlist.c

```
古 🕪 🚉
                                                              Sel 23:05
                                                         ati@ati-VirtualBox: ~
       GNU nano 2.9.3
                                                              dirlist.c
       #include <stdio.h>
       #include <dirent.h>
#include <stdlib.h>
       int main (int argc, char *argv[]){
    struct dirent *dptr;
    DIR *dname;
               if (argc != 2)
                        printf("Usage: ./a.out <dirname>\n");
                        exit(-1);
                if((dname = opendir(argv[1])) == NULL)
                        perror(argv[1]);
                        exit(-1);
               while(dptr=readdir(dname))
                        printf("%s\n", dptr->d_name);
               closedir(dname);
 a
                                                                                                              Activate Wi
```

Mengecek kode program dirlist.c ada yang salah tidak menggunakan gcc dirlist.c –o dirlist