Nama: Pawitro Purbangkoro

NIM : L200170045

Kelas : B

MODUL 08

1. Ketikkan 'gedit fork.c' kemudian tulis kode program seperti di bawah ini:

```
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#include
#include <stdlib.h>
#include <unistd.h>
#include <sys/types.h>
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 parent is %d\n\n", getppid());
           }
else
                       printf("Parent process:");
                       printf("\nProcess id is %d", getpid());
printf("\nValue of x is %d", x);
printf("\nProcess id of parent is %d\n", getppid());
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```

- 2. Kemudian ngengkompilasi dan menjalankan program tersebut:
 - \$gcc fork.c
 - \$./a.out

```
yussynta@yussynta-VirtualBox: ~/L200170084
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yussynta@yussynta-VirtualBox:~$ cd L200170084
yussynta@yussynta-VirtualBox:~/L200170084$ gedit fork.c
yussynta@yussynta-VirtualBox:~/L200170084$ gcc fork.c
fork.c:5:1: warning: return type defaults to 'int' [-Wimplicit-int]
main(){
yussynta@yussynta-VirtualBox:~/L200170084$ ./a.out
Parent process:
Process id is 3230
Value of x is 6
Process id of parent is 1788
yussynta@yussynta-VirtualBox:~/L200170084$ Child process:
Process id is 3231
Value of x is 6
Process id of parent is 1055
yussynta@yussynta-VirtualBox:~/L200170084$
```

3. Ketikkan 'gedit exec.c' kemudian tulis kode program seperti di bawah ini:

```
wait.c [Read-Only]
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#include <stdio.h>
#include <unistd.h>
#include <svs/tvpes.h>
#include <sys/wait.h>
main(){
      int i, status;
      pid_t pid;
pid = fork();
      if (pid < 0)
             printf("\nPembuatan proses gagal\n");
             exit(-1);
      else if (pid > 0)
             }
else
             printf ("\nChild strats\nNomor Ganjil:");
             }
```

- 4. Kemudian ngengkompilasi dan menjalankan program tersebut:
 - \$gcc fork.c
 - \$./a.out

5. Lanjutkan dengan mengetikkan 'gedit exec.c' kemudian tulis kode program seperti di bawah ini:

```
exec.c [Read-Only]
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#include
main(int argc, char*argv[]){
         pid_t pid;
int i;
          if (argc !=3)
                    printf("\nInssufficient arguments to load program");
printf("\nUsage: ./a.out <path> <cmd>\n"); exit(-1);
          switch(pid = fork())
                    :
printf("Fork failed");
exit(-1);
                    printf("Child process\n");
i = execl(argv[1], argv[2], 0);
if (i < 0)</pre>
                               printf("%s program not loaded using exec system call\n",
argv[2]);
                               exit(-1);
          default:
                    :
wait(NULL);
printf("Child Terminated\n");
exit(0);
          7
                                                 C ▼ Tab Width: 8 ▼ Ln 1, Col 1 ▼ INS
```

- 6. Kemudian ngengkompilasi dan menjalankan program tersebut:
 - \$gcc exec.c
 - \$./a.out /bin/ls ls

7. Lanjutkan dengan mengetikkan 'gedit stat.c' kemudian tulis kode program seperti di bawah ini:

```
pinctude <stdio.h>
pinctude <stdio.h>
pinctude <stdio.h>
pinctude <stdib.h>
pinctude <stdib.h
pinctude
```

- 8. Kemudian ngengkompilasi dan menjalankan program tersebut:
 - \$gcc stat.c
 - \$./a.out /bin/ls ls

```
yussynta@yussynta-VirtualBox: ~/L200170084
 File Edit View Search Terminal Help
 [-Wimplicit-function-declaration]
    wait(NULL);
yussynta@yussynta-VirtualBox:~/L200170084$ ./a.out /bin/ls /ls
Child process
a.out dirlist.c exec.c fork.c stat.c wait.c
Child Terminated
yussynta@yussynta-VirtualBox:~/L200170084$ gedit stat.c
yussynta@yussynta-VirtualBox:~/L200170084$ gcc stat.c
stat.c: In function 'main':
stat.c:20:24: warning: format '%d' expects argument of type 'int', but argument 2 h
as type '__blksize_t {aka long int}' [-Wformat=]
printf("Block size : %d\n", file.st_blksize);
stat.c:21:30: warning: format '%d' expects argument of type 'int', but argument 2 h
as type '__blkcnt_t {aka long int}' [-Wformat=]
  printf("Blocks allocated : %d\n", file.st_blocks);
stat.c:22:23: warning: format '%d' expects argument of type 'int', but argument 2 h
as type '__ino_t {aka long unsigned int}' [-Wformat=]
  printf("Inode no. : %d\n", file.st_ino);
stat.c:25:23: warning: format '%d' expects argument of type 'int', but argument 2 h
as type '__off_t {aka long int}' [-Wformat=]
  printf("File size : %d bytes\n", file.st_size);
stat.c:26:26: warning: format '%d' expects argument of type 'int', but argument 2 h
as type '__nlink_t {aka long unsigned int}' [-Wformat=]
printf("No. of links : %d\n", file.st_nlink);
yussynta@yussynta-VirtualBox:~/L200170084$ ./a.out /bin/ls /ls
Usage: ./a.out <filename>
yussynta@yussynta-VirtualBox:~/L200170084$
```

9. Lanjutkan dengan mengetikkan 'gedit dirlist.c' kemudian tulis kode program seperti di bawah ini:

- 10. Kemudian ngengkompilasi dan menjalankan program tersebut:
 - \$gcc dirlist.c
 - \$./a.out.