Muhammad Rizqi Erdyansyah

L200180171

3. exec.c

```
exec.c (~) - gedit
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                                    #include <unistd.h>
                                   #include <sys/types.h>
                                   #include <wait.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 parent is %d\n\n", getppid());
                                                                         else
                                                                                                               printf("\nParent process:");
printf("\nProcess id is %d", getpid());
printf("\nValue of x is %d", x);
printf("\nProcess id of shell is %d\n", getppid());
                                                                        }
                                                                                                                                                                                                                                           C ▼ Lebar Tab: 8 ▼
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                             rizqi@rizqi-VirtualBox:~$ gcc exec.c
```

```
rizqi@rizqi-VirtualBox:~$ gcc exec.c
rizqi@rizqi-VirtualBox:~$ ./a.out

Parent process:
Process id is 4178
Value of x is 6
Process id of shell is 3957
rizqi@rizqi-VirtualBox:~$ Child process:
Process id is 4179
Value of x is 6
Process id of parent is 1413

printf("\nProcess id is %d", getpid());
printf("\nValue of x is %d", x);
printf("\nProcess id of shell is %d\n", getppid());
}

}
```

4. stat.c

```
stat.c (~) - gedit
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       📓 fakhar.c 🗴 📓 exec.c 🗴 📄 *Dokumen Tanpa Judul 1 🗴 📓 fakharadsa.c 🗴 📳 stat.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)
                     else if (pid == 0)
                      printf("Child starts\nNomor Ganjil:");
                      for (i=1;i<=10;i+=2)
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```

```
rizqi@rizqi-VirtualBox:~$ nano stat.c
rizqi@rizqi-VirtualBox:~$ gcc stat.c
rizqi@rizqi-VirtualBox:~$ ./a.out
Child starts
Nomor Ganjil: 1 3 5 7 9
Child ends

Parent starts
Nomor Genap: 2 4 6 8 10
Child ends
rizqi@rizqi-VirtualBox:~$
```

5. dirlist.c

```
dirlist.c (~) - gedit
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                                                                       x i dirlist.c
       ◀ 🖺 fakharadsa.c
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                              x stat.c
       #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)
                         {
                                 printf("%s program not loaded using exec system call\n",
       argv[2]);
                                 exit(-1);
                default:
   rizqi@rizqi-VirtualBox:~$ nano dirlist.c
   rizqi@rizqi-VirtualBox:~$ gcc dirlist.c
   rizqi@rizqi-VirtualBox:~$ ./a.out
   insufficient arguments to load program
  Usage: ./a.out <path> <cmd>
   rizqi@rizqi-VirtualBox:~$ gcc dirlist.c
```