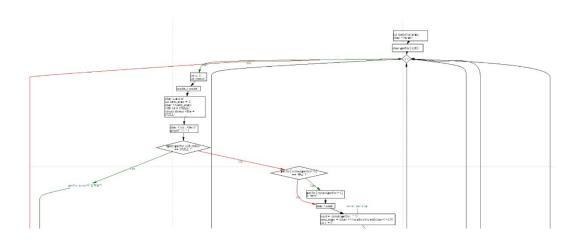
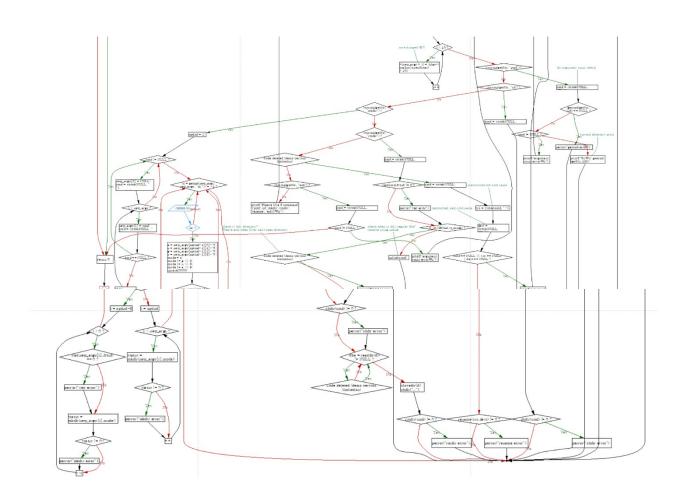
<Assignment2-3>

000	Assignment2-2(File implementation)			system	command
000	□□□□□□□(H020-3-0922-01)(□ 5 □ 6)				
					010-8648-7561
	000000			000	tiktaktok116@naver.c om
	2014707003		0000	000 000	
0000	2020.04.28~2020.05.08				
00 00	OperatingSyste m	Linux (Ubuntu 18.04 LTS)			
	Language	С			
	Development Tools	Visual Studio Code, gcc Compiler			
00 0000 0 00 00	 Current working directory [] ([]] []] error []]) Current working directory [] ([]] []] error [], ~, - []] [] []] [] [] [] [] [] [] [] [] [] [] [] [] [] [

2. Flow Chart





- Flow chart 000 000 000 00 00

3. Source Code

```
#include <unistd.h>
/* Add header file if you need */
#include <sys/stat.h> // for mode authority
#include <sys/types.h>
#include <stdio.h>
#include <stdio.h>
#include <stdib.h> // for strcmp function
#include <stdlib.h>
#include <dirent.h> // for opendir(), readdir(), closedir()
#include <erron.h> // for exception handling
#include <getopt.h>
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
          int main(int argc, char **argv)
                 char getStr[128];
while(1)
{
                         /* Write your codes */
int c, i;
int status;
 30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
                          int status;
mode_t mode; // folder authority
char u,g,o,a; // for arithmetic shift
                          int new_argc = 2;
char **new_argv;
                         DIR *d = NULL;
struct dirent *file = NULL;
struct stat buf;
char *src, *dest; // for rename argument
         printf(">> ");
/////////// >==-
                          char *cmd;
cmd = strtok(getStr, " "); // array parsing
 48

49

50

51

52

53

54

55

56

67

66

67

66

67

70

77

78

81

82

83

84

85

86

87
                           new_argv = (char **) malloc(sizeof(char*) *10);
for (int j = 0; j < 10; j++)
  *(new_argv + j) = (char*) malloc(sizeof(char) * 10); // core dumped 발자
                           if (!strcmp(getStr, "pwd")) {
  cmd = strok(NULL, "\n"); // for argument count check
  if(getcwd(getStr, 128) == NULL)
      perror("getcwd error");
  else {
    if (cmd != NULL) {
        printf("argument count error\n");
        continue;
    }
}
                                   }
                                           printf("%s\n",getcwd(getStr,128)); // current directory print
                           }
                           else if (!strcmp(getStr, "cd")) {
  cmd = strtok(NULL, "\n");
  if(chdir(cmd) != 0) // directory change
    perror("chdir error");
                           else if (!strcmp(getStr, "mkdir")) {
  optind = 1;
  while(cmd != NULL){
                                           lle(cmd != NULL){

new_argy[0] = NULL;

cmd = strtok(NULL, " ");

i = optind;

while(i < new_argc) {

new_argy[i] = cmd;

cmd = strtok(NULL, " ");

if(cmd == NULL) break; // mkdir 이후 입력되는 인자 new_argv에 저장

i++;

new_args++- // counting하면서 배열 크기 결정
  88
89
                                                     new_argc++; // counting하면서 배열 크기 결정
                                   }
```

□□□ : **2020** □ **5** □ **8** □

```
while((c = getopt(new_argc, new_argv, "m:")) != -1) {
   switch (c)
(cse 'm';
cse 'm';
u = new_argv[optind-1][0]-'0';
g = new_argv[optind-1][1]-'0';
g = new_argv[optind-1][2]-'0';
o = new_argv[optind-1][3]-'0'; // shift 연산(8진수)
mode = 0;
mode |= u << 6;
mode |= u << 6;
mode |= a << 9; // 연산 후 mode에 저장
                                               }
                                               else {
    for(i = optind; i < new_argc; ++i) { // 권한 내용 이후 입력 디렉토리 제목 인자 입력될 때
    status = mkdir(new_argv[i],mode);
    if(status != e)
        perror("mkdir error");
}
                       }
                                        }
                       | slse if (lstrcmp(getStr, "rmdir")) {
    cnd = strtok(NBLL, "\n");
    inf(strt(cnd,Nbr) | n = 0) perrop("stat error"); // directory stat check
    if(s_ISDIR(Nbr.1st_mode)); // check is this directory?
    if(d = opendir(cnd)) == NBLL) // Please exit when User can't open directory
    perrop("sailed to open this directory");
    if(cnd(rcad) != 0)
    perrop("chdir error");
    while(file = reddir(cnd) != NBLL) {
        if(strcmp(file-xd_name, ".") == 0 || strcmp(file-yd_name, ".")) // pass current directory and parent directory
        continue:
                                        }
closedir(d);
chdir(~..-); // parent directory 이동
if(mdir(cmd) l= 0) // 이동 후 삭제
perror("mdir cmor");
                                 else // check when is this regular file?
unlink(cmd); // remove using unlink
                               else if (istrcmp(getStr, "rename")) {
    cmd = strtok(NULL, "\n"); // rename \[ \mathbb{R} = 7 \]
    src = strtok(cmd, ""); // memorized old cmd name
    dest = strtok(NULL, "\n"); // memorized new cmd name
    if(cmd == NULL || src == NULL || dest == NULL) {
        printf("argument count error");
        continue;
    }
151
152
153
154
155
156
                                         if(rename(src,dest) != 0)
    perror("rename error");
157
158
159
160
161
                               }
else if (!strcmp(getStr, "exit")) {
    cmd = strtok(NULL, "\n");
    if (cmd != NULL) {
        printf("argument count error\n"); // exit 이 외로 추가가 입력됬을 때
162
163
164
165
166
167
168
                                        }
                                       else break;
                               }
169
                               else {
    printf("Please Use 5 command {'pwd','cd','mkdir','rmdir','rename', 'exit'}\n");
    ...
170
171
172
173
            174
175
```

4. Result

return 0;