Gebze Technical University

Computer Engineering Faculty

Homework **1** Report

System Programming

Student: **Burak Ersoy**

No: **1901042703**

Part 1 How Did I Solve The Question?

To solve the problem, I first created the flag based on the 3 arguments specified in the assignment.

```
/* By default, the program should open the file with the  O_APPENDflag */
flags = (O_RDWR | O_CREAT);
if (argc == 3)
{
    flags |= (O_APPEND);
}
```

```
/* if    a    third    command-line    argument    (x)    is    supplied */
for (i = 0; i < num_bytes; i++)
{
    if (argc == 3)
    {
        write(file_desc, "i", 1);
    } else
    {
        lseek(file_desc, 0, SEEK_END);
        write(file_desc, "i", 1);
    }
}
```

```
int print_operation(char *argv[])
{
    printf("%s <filename> <num-bytes> [x]\n", argv[0]);
    printf("    where x is only checked for existence\n");
    return 0;
}
```

```
if (argc < 3 || argc > 4)
{
    print_operation(argv);
    return 1;
}
```

After writing its arguments, I checked the file opening process and wrote my program.

ANSWER

The sizes were definitely different:

```
burak@Burak:/mnt/d/burak/Desktop/part1$ ls -l f1 f2
-rwxrwxrwx 1 burak burak 2000256 Mar 30 21:15 f1
-rwxrwxrwx 1 burak burak 1003709 Mar 30 21:20 f2
burak@Burak:/mnt/d/burak/Desktop/part1$
```