CSE 4034 – Advanced Unix Programming Programming Assignment # 2

MEHMET MUM - 150114051 OĞUZHAN BÖLÜKBAŞ - 150114022

Design;

- 1. Get a number from user.
- 2. Calculate number of threads. (random between 3 and 5)
- 3. Allocate memory for the array and negate it.
- 4. Check primeness of numbers which are less then the number.
 - Divide numbers to previous prime numbers. If the number is not divisible none of them, the number is prime.
- 5. Print prime numbers. (in the pdf file it does not say threads have to print their prime numbers. We recorded prime numbers and which thread calculated it to a array, and after all calculations are finished, main thread prints the prime numbers and threads.)

Number: 50 Number of working threads: 4

```
C project2.c ×

1  #include <stdio.h>
2  #include <stdib.h>
3  #include <tdib.h>
4  #include <time.h>
5

6  **

7  void prime numbers(int number);
8  int check prime(int the number);
9  void print_primes(int number);
10  void megate(int number);
11  void memory_allocate(int number);
12  **
13  int **prime_array; // array for keep prime numbers and which thread calculated it
14  // prime_array[i][0] keeps prime or not
15  // prime_array[i][0] keeps prime or not
16  // prime_array[i][1] keeps which thread calculate it

PROBLEMS 28  OUTPUT DEBUG CONSOLE TERMINAL

mehmet@mehmet-Inspiron-3543:~/Desktop$ ./a.out
Enter a number: 50

Thread 0 Prime 2
Thread 2 Prime 3
Thread 1 Prime 11
Thread 2 Prime 13
Thread 0 Prime 7
Thread 1 Prime 17
Thread 3 Prime 7
Thread 3 Prime 37
Thread 3 Prime 23
Thread 3 Prime 23
Thread 3 Prime 27
Thread 3 Prime 37
Thread 3 Prime 43
Thread 5 Prime 47
Thread 7 Prime 41
Thread 7 Prime 41
Thread 7 Prime 47
```

Number: 100

Number of working threads: 4

```
#include <stdio.h>
#include <stdiio.h>
#include <tidiio.h>
#include <tidiio.h

#include <td>#include #include #incl
```

Number: 500

Number of working threads: 4

Number: 121

Number of working threads: 5

```
| #Include <stdio.h>
| #Include <stdio.h
| #Includ
```

Number: 70 Number of working threads: 3