**BLM2541 - Programming Languages**

**Homework - I**

**Deadline – 13.12.2013 before 13:00**

**AFTER INITIAL SUBMISSION, YOU WILL DEMONSTRATE YOUR PROGRAM ON THE LAB. SCHEDULE FOR THE DEMO SESSION WILL BE ANNOUNCED AFTER INITIAL SUBMISSIONS!!!**

In this assignment, you will implement a simple command line based search engine. Your program will provide a prompt for user to enter a search path and a keyword. When the user enters a search path and a keyword, your program will start a pthread to execute search function and pass this information to the pthread.

The search function should search all the text files with “.txt” extension in the given path. It should record all the matches in a result file with file name, and line number information in each line. The result filename should be the number of the search.

For directory listing, you can use opendir, readdir, and closedir functions. Please also read dirent.h file for more information.

**Example :**

$./fileSearch

> /home/cihan/Test/

initiating search on (/home/cihan/Test), results will be in 1.txt

>/tmp/

initiating search on (/tmp), results will be in 2.txt

**What to submit**

Use your student number as your filename (98011001.c) Please also include your student number, your name, and a short description of your solution in the beginning of your source file as comment lines.

**How to submit**

You should send an e-mail that contains above documents to ahmetd@ce.yildiz.edu.tr **before the DEADLINE!!!**