**Lab 2. Process management（15 Marks）**

Implement a “mytime” command to run an executable program through the command line parameter. Create a new process to run this executable program and record the running time of that program. **Implement a Windows version and a Linux version.**

Hints:

In Windows, you may need to use these Windows APIs:

* Use CreateProcess() to create a new process
* Use WaitForSingleObject() in “mytime” command to synchronize with the created process.
* Use GetSystemTime() to obtain the time.

In Linux, you may use these system calls:

* Use fork()/execv() to create a new process
* Use wait() to wait for the created process to end.
* Use gettimeofday() to obtain current time.

Usage of mytime command:  
$ mytime.exe program1