CSGE602055 Operating Systems CSF2600505 Sistem Operasi LeftOver

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http://os.vlsm.org/
Always check for the latest revision!

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LeftOver

XXXX

)	The	Check List (Operating Systems)
		Starting Point: http://os.vlsm.org/
		Text Book : any recent/decent OS book but map it to OSC10 .
		Create public project "os182" on your github.com account.
		☐ Create file "README.md" and add an extra line every week. For e.g.¹:
		ZCZC Sistem Operasi 2018 Awal (1)
		ZCZC W01 Have tried demo for week 01.
		ZCZC W02 Week 02 is done.
		ZCZC W03 Week 03 is done.
		Encode your QRC with image size of approximately 250x250 pixels:
		"OS181 CLASS ID GITHUB-ACCOUNT SSO-ACCOUNT SIAK-Full-Name"
		Special for Week 00: Mail your embedded QRC to:
		operatingsystems@vlsm.org with Subject: [W00] CLASS ID
		SIAK-NAME.
		Write your Memo (with QRC) every week.
		Using your SSO account, login to badak.cs.ui.ac.id via
		kawung.cs.ui.ac.id.
		☐ Check folder badak:///extra/Week00/
		☐ Every week, copy the weekly demo files to your own home directory.
		Eg. for Week00:
		cp -r /extra/Week00/W00-demos/ W00-demos/

¹Week 00 line is optional. The following "ZCZC WXX" weekly tags are mandatory.

Resources

- Text Book: any recent/decent OS book. Eg. (OSC10) Abraham Silberschatz, Peter B. Galvin, Greg Gagne: Operating System Concepts, 10th Edition, 2018.
- (GITHUB)
 https://github.com/UI-FASILKOM-OS/SistemOperasi/
 - (DEMO) demos/
 - (SLIDE) pdf/
- (UJIAN) http://rms46.vlsm.org/2/195.pdf 205.pdf
- (BADAK) BADAK:///extra/

Bahan Presentasi: http://rms46.vlsm.org/2/207.html



Figure: https://github.com/UI-FASILKOM-OS/os182/tree/master/pdf

Bahan Demo

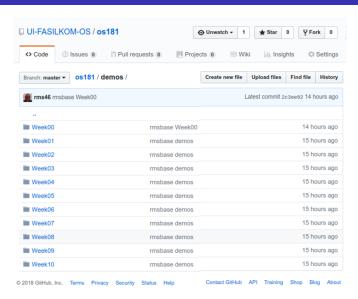


Figure: https://github.com/UI-FASILKOM-OS/os182/tree/master/demos

Arsip SCELE



Figure: Lihat juga BADAK.cs.ui.ac.id:///extra/

Github (New) Account 1

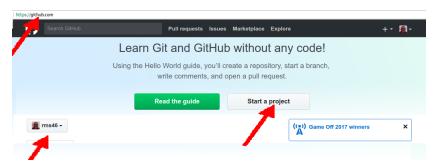


Figure: Start a new project by "rms46".

Github (New) Account 2



Figure: Create public repository "os182" with a README.md file

Github (New) Account 3



Figure: Public project "os182" by "rms46" at https://github.com/rms46/os182

WSL: Windows Subsystem for Linux

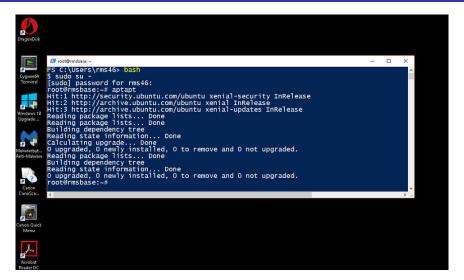


Figure: WSL: Windows Subsystem for Linux

Cygwin

```
-/demos/week00-introduction
rms46@rmsbase ~/demos/week00-introduction
$ export PS1='\w \$
~/demos/week00-introduction $ 1s -al
total 14
drwxr-xr-x+ 1 rms46 rms46 0 Aug 16 04:41 .
drwxr-xr-x+ 1 rms46 rms46 0 Aug 16 03:42 ...
-rw-r--r-- 1 rms46 rms46 250 Aug 16 03:42 c-program-example.c
drwxr-xr-x+ 1 rms46 rms46 0 Aug 16 03:42 directory
-rw-r--r-- 1 rms46 rms46 240 Aug 16 03:42 Makefile
~/demos/week00-introduction $ make
qcc -o c-program-example c-program-example.c
~/demos/week00-introduction $ 1s -al
total 78
drwxr-xr-x+ 1 rms46 rms46
                              0 Aug 16 04:42 .
drwxr-xr-x+ 1 rms46 rms46
                              0 Aug 16 03:42 ...
                            250 Aug 16 03:42 c-program-example.c
-rw-r--r-- 1 rms46 rms46
-rwxr-xr-x 1 rms46 rms46 62483 Aug 16 04:42 c-program-example.exe
drwxr-xr-x+ 1 rms46 rms46
                              0 Aug 16 03:42 directory
-rw-r--r-- 1 rms46 rms46
                            240 Aug 16 03:42 Makefile
~/demos/week00-introduction $ ./c-program-example.exe
This is program #1
~/demos/week00-introduction $ ls -al directory/
total 13
drwxr-xr-x+ 1 rms46 rms46 0 Aug 16 03:42 .
drwxr-xr-x+ 1 rms46 rms46 0 Aug 16 04:42 .
-rw-r--r-- 1 rms46 rms46 58 Aug 16 03:42 file1
-rw-r--r-- 1 rms46 rms46 58 Aug 16 03:42 file2
-rw-r--r-- 1 rms46 rms46 58 Aug 16 03:42 file3
-rw-r--r-- 1 rms46 rms46 58 Aug 16 03:42 file4
-rw-r--r-- 1 rms46 rms46 58 Aug 16 03:42 file5
~/demos/week00-introduction $
```

Figure: Cygwin

Week 00: Problems

- Tugas Minggu 00 (Week 00) ada dua:
 - membuat QRC dan mengirimkannya via email.
 - membuat Memo Minggu 00 yang ada QRC, serta ditunjukkan pada saat istirahat kuliah hari ke dua.
- "TANDA PETIK" BUKAN merupakan bagian dari QRC!
- Jangan mencantumkan ".git" dan ".sso", jika bukan bagian dari nama akun anda!
- Tanpa header [W00] pada Subject; email anda mungkin akan nyasar entah kemana... Ingat: [W00] (We-Nol-Nol) tidak sama dengan [W00] (We-O-O)!
- Ukuran QRC cukup sekitar 256 x 256 pixel: jangan terlalu besar atau terlalu kecil.
- QRC ditanam (embedded) dalam email; jangan menggunakan attachment!
- Jangan mengirim MEMO dalam format PDF!

Week 00: Check List

Starting Week 01: TABULA RASA is not accepted anymore! Find/copy this document from http://os.vlsm.org/ Find/read a recent/decent OS Book and map it to **OSC10**. Using your SSO account, login to badak.cs.ui.ac.id via kawung.cs.ui.ac.id. ☐ Check folder badak:///extra/Week00/ Try to copy and compile c-program-example.c. QR Code: (Eg) "OS182 X 1253755125 demo Demo Suremo" Mailto: operatingsystems@vlsm.org (Eg.) Subject: OS182 X 1253755125 demo Demo Suremo Write "Memo Week00" + your QRC. How to improve this document?

The End

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Week 00: Self Service Assignments

- Create project (PUBLIC) "os182" on your new (or existing) github.com account.
- (Week 00) QRCode¹: "OS182 CLASS ID GITHUB-ACCOUNT SSO-ACCOUNT SIAK-Full-Name"
- (Weekly) Memo.
- Informasi Kuliah, Arsip Ujian, dan Demo
 - badak.cs.ui.ac.id:/extra/
 - https://github.com/UI-FASILKOM-OS/os182
 - https://rms46.vlsm.org/2/195.pdf [195.pdf 205.pdf].
- Which BASH Account?
 - Virtual Ubuntu: badak.cs.ui.ac.id (SSO)
 - Ubuntu (BYOD)
 - WSL: Windows 10 Subsystem for Linux
 - Cygwin (Windows)

¹"QR Code" is a registered trademark and wordmark of Denso Wave Inc.

Week 01: Problems

- Tugas Minggu 01 (Week 01) ada dua:
 - Memo Week01: to be checked at break of the first lecture of WEEK 01.
 - Try Demo Week01 and write in "README.md" (os181), something like: "ZCZC W01 Telah mencoba demo Week01".

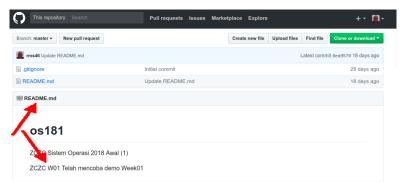


Figure: README.md: ZCZC W01 ...

Week 02: Problems

- Tugas Minggu 02 (Week 02) ada dua:
 - Memo Week02: to be checked at break of the first lecture of WEEK 01.
 - Try Demo Week02 and write in "README.md" (os181), something like: "ZCZC W02 Demo: done!".



Figure: README.md: ZCZC W02 Demo: done!

07-fork

```
>>>> $ cat 07-fork c
/*
* (c) 2005-2017 Rahmat M. Samik-Ibrahim
* https://rahmatm.samik-ibrahim.vlsm.org/
* This is free software.
* REV05 Mon Oct 30 10:57:02 WIB 2017
* REV02 Mon Oct 24 10:43:00 WIB 2016
* REV01 Sun Feb 27 08:31:46 WIB 2011
* START 2005
*/
#include <sys/types.h>
#include <sys/wait.h>
#include <stdio h>
#include <stdlib.h>
#include <unistd.h>
#define DISPLAY1 "START * PARENT *** ** PID (%4d) ** ************""
#define DISPLAY2 "RANDOM: val1(%4d) -- val2(%4d) -- val3(%4d)\n"
/******* *** main ** */
void main(void) {
   pid_t val1, val2, val3;
   printf(DISPLAY1, getpid());
  val1 = fork();
  val2 = fork():
  val3 = fork():
  printf(DISPLAY2, val1, val2, val3);
  wait(NULL):
  wait(NULL):
  wait(NULL);
/* ******* START BI.OCK ***
   ******* END * BLOCK *** */
}
```

07-fork (2)

```
>>>> $ 07-fork
START * PARENT *** ** PID (6160) ** ********
RANDOM: val1(6161) -- val2(6162) -- val3(6163)
RANDOM: val1(6161) -- val2(6162) -- val3(
RANDOM: val1(6161) -- val2(
                            0) -- val3(6165)
RANDOM: val1(6161) -- val2(
                             0) -- val3(
RANDOM: val1( 0) -- val2(6164) -- val3(6166)
RANDOM: val1( 0) -- val2(6164) -- val3(
RANDOM: val1( 0) -- val2( 0) -- val3(6167)
RANDOM: val1( 0) -- val2( 0) -- val3(
>>>> $ 07-fork
START * PARENT *** ** PID (6168) ** ********
RANDOM: val1(6169) -- val2(6170) -- val3(6172)
RANDOM: val1(6169) -- val2( 0) -- val3(6173)
RANDOM: val1(6169) -- val2(6170) -- val3(
RANDOM: val1( 0) -- val2(6171) -- val3(6174)
RANDOM: val1(6169) -- val2(
                           0) -- val3(
RANDOM: val1( 0) -- val2(
                          0) -- val3(6175)
RANDOM: val1( 0) -- val2(
                            0) -- val3(
RANDOM: val1( 0) -- val2(6171) -- val3(
>>>> $ 07-fork
START * PARENT *** ** PID (6176) ** *******
RANDOM: val1(6177) -- val2(6178) -- val3(6181)
RANDOM: val1( 0) -- val2(6179) -- val3(6180)
RANDOM: val1( 0) -- val2(6179) -- val3(
RANDOM: val1( 0) -- val2( 0) -- val3(6182)
RANDOM: val1(6177) -- val2( 0) -- val3(6183)
RANDOM: val1(6177) -- val2( 0) -- val3(
RANDOM: val1(6177) -- val2(6178) -- val3(
RANDOM: val1( 0) -- val2( 0) -- val3(
>>>>> $
```



- 4 SKS (Units) means 12 hours per week!
 - Ah Beng said: Work hard!
- No Lab No Task No Pop Quiz No Teaching Assistant¹.
 - No secret hand-shake!
 - But, it may vary from class to class.
- Active Preparation / Participation / Q&A Only.
 - Pre-Midterm (UTS): 6 weeks @ 3 points (=18%).
 - Post-Midterm: 5 weeks @ 3 points (=15%).
 - Points for answering questions, trying demos, and writings memos.
 - Deductions for NOT answering questions: individually or collectively.

Assessment part 2

- How to get points?
 - Answer questions, especially not in the middle of a lecture!
 - Try Demos.
 - Class attendance.
- MidTerm: 6 set problems @ 6 points (= 36%).
- Final: 30 points $(=30\%)^1$.
- Extra Rounding: 1 point²
- **C-2C:** upto 5 points ³.
 - Only if your grade is between 50.00 and 55.00 and you have a "good" track record.
- Check your points regularly at https://academic.ui.ac.id/ and DO NOT COMPLAIN weeks after! See also,

https://os.vlsm.org/.

¹THIS TERM ONLY. See SCELE for more details!

²NOT AVAILABLE THIS TERM!

³Terms and Conditions apply. Void where prohibited by law.

The End

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