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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Agenda

- Start
- 2 Agenda
- LeftOver
- 4 Resources
- Bahan-bahan
- 6 Accounts
- Week 00: Problems
- Week 00: Check List
- The End
- Week 00: Self Service Assignments
- 11 Week 01: Problems
- Week 02: Problems
- 07-fork
- The End

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.
\Box 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:
<pre>cp -r /extra/Week00/W00-demos/ W00-demos/</pre>
V 1 00 P P P P T T T T T T T T T T T T T T

 $^{^1\}mbox{Week 00 line}$ 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

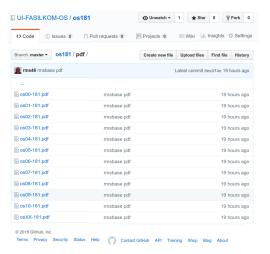


Figure: https://github.com/UI-FASILKOM-OS/os182/tree/master/pdf

Bahan Demo

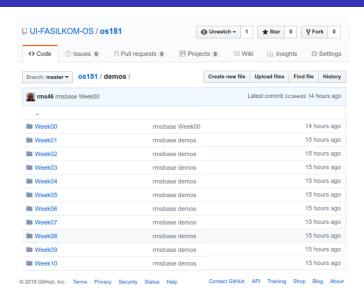


Figure: https://github.com/UI-FASILKOM-OS/os182/tree/master/demos

Arsip SCELE



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

Github (New) Account 1

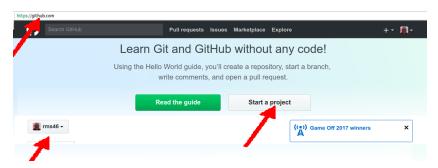


Figure: Start a new project by "rms46".

Github (New) Account 2

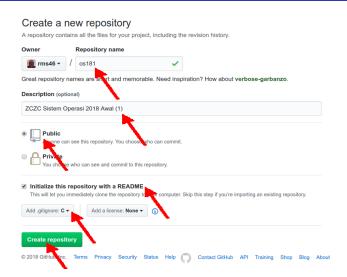


Figure: Create public repository "os182" with a README.md file

Github (New) Account 3

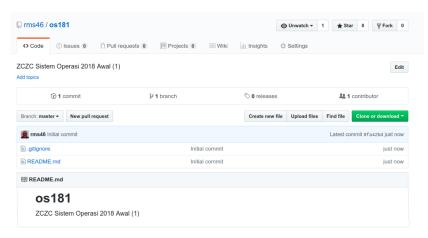


Figure: Public project "os182" by "rms46" at https://github.com/rms46/os182

WSL: Windows Subsystem for Linux

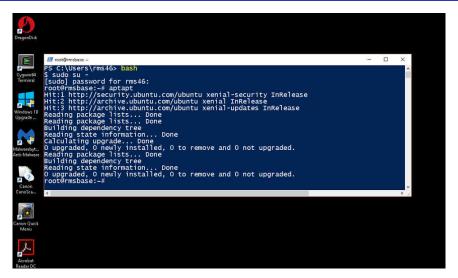


Figure: WSL: Windows Subsystem for Linux

Cygwin

```
E ~/demos/week00-introduction
                                                                         - 0
rms46@rmsbase ~/demos/week00-introduction
$ export PS1='\w \$ '
~/demos/week00-introduction $ ls -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
gcc -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 .
                              0 Aug 16 03:42 ...
drwxr-xr-x+ 1 rms46 rms46
-rw-r--r-- 1 rms46 rms46
                            250 Aug 16 03:42 c-program-example.c
-rwxr-xr-x 1 rms46 rms46 62483 Aug 16 04:42 c-program-example.exe
                            0 Aug 16 03:42 directory
drwxr-xr-x+ 1 rms46 rms46
-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 [WOO] (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".

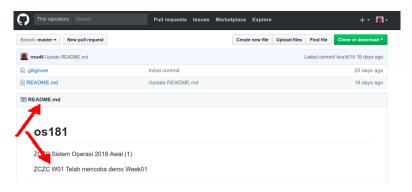


Figure: README.md: ZCZC W01 ...

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!".

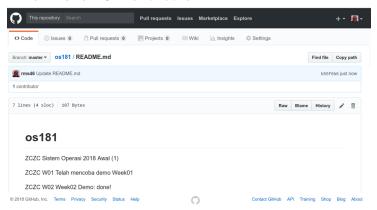


Figure: README.md: ZCZC W02 Demo: done!

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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