



Praktikum Organisasi Sistem Komputer

Memori

Alat Praktikum

1. PC/Laptop 1 Unit
2. Command Prompt (cmd.exe)
3. MEM
4. view basic information about your computer
5. CHKDSK dan Flash Disk
6. Print Out hasil percobaan

MEM

MEM

MEM adalah salah satu perintah di Disk Operating System (DOS) versi 4.0 atau di Command Prompt Windows XP, 7, 8 yang digunakan untuk menampilkan jumlah used memory dan free memory dalam sistem komputer.

Format Perintah :

MEM [/CLASSIFY | /DEBUG | /PAGE]

MEM

(next...)

Keterangan option-option pada MEM :

- ❑ /CLASSIFY atau /C : mengklasifikasikan program dengan penggunaan memori. Daftar ukuran program, menyediakan ringkasan dari memori yang digunakan, dan daftar blok memori terbesar yang tersedia.
- ❑ /DEBUG atau /D : menampilkan status semua modul dalam memori, driver internal dan informasi lainnya.

MEM

(next...)

□/PAGE atau /P : jeda setelah setiap layar penuh informasi.

Contoh penggunaan MEM :

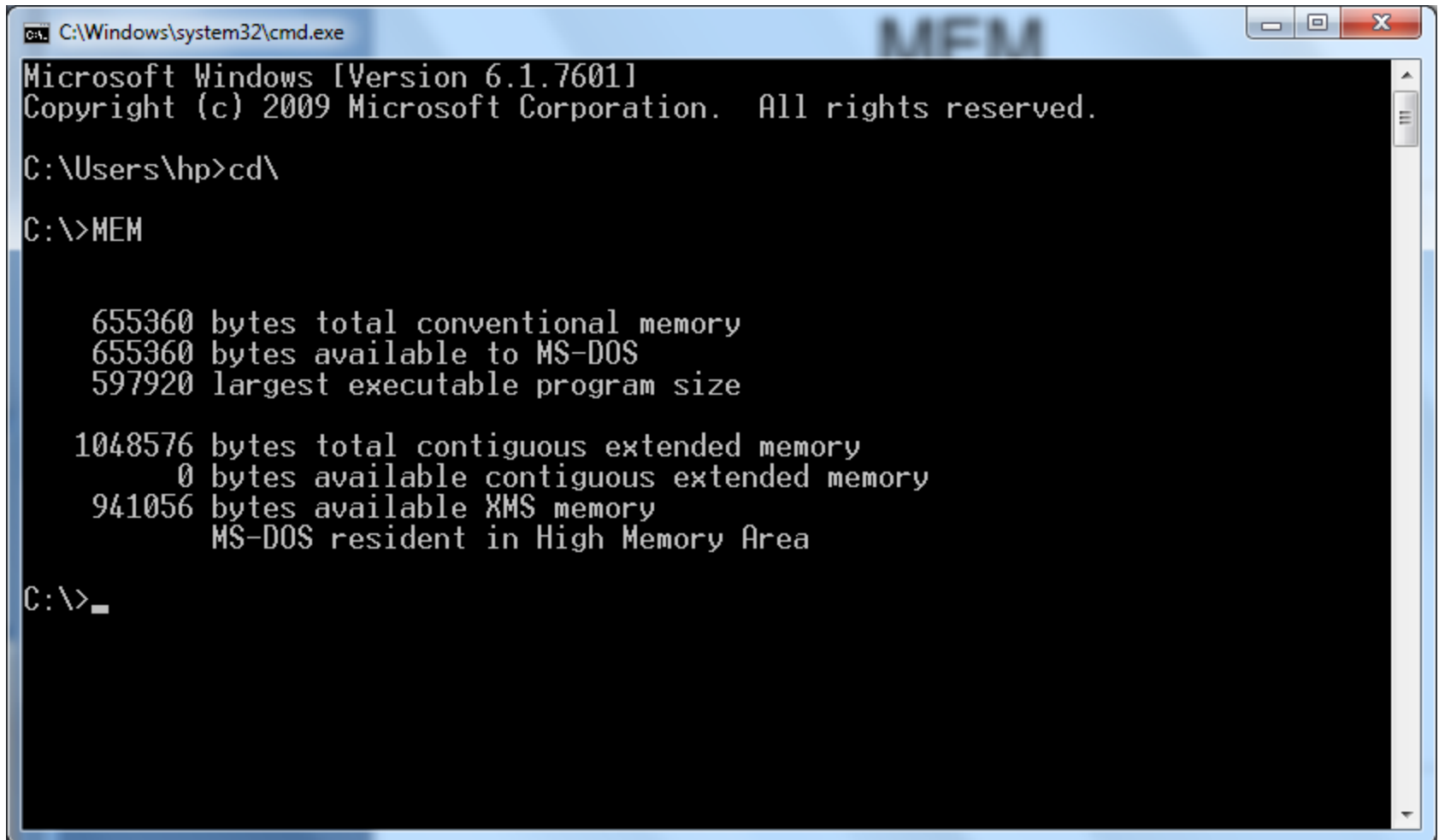
```
C:\ MEM <enter>
```

```
C:\ MEM /C <enter>
```

```
C:\ MEM /D <enter>
```

```
C:\ MEM /P <enter>
```

MEM (next...)



A screenshot of a Windows command prompt window titled "MEM". The window shows the output of the MEM command, which displays memory statistics for the system. The text is as follows:

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\hp>cd\

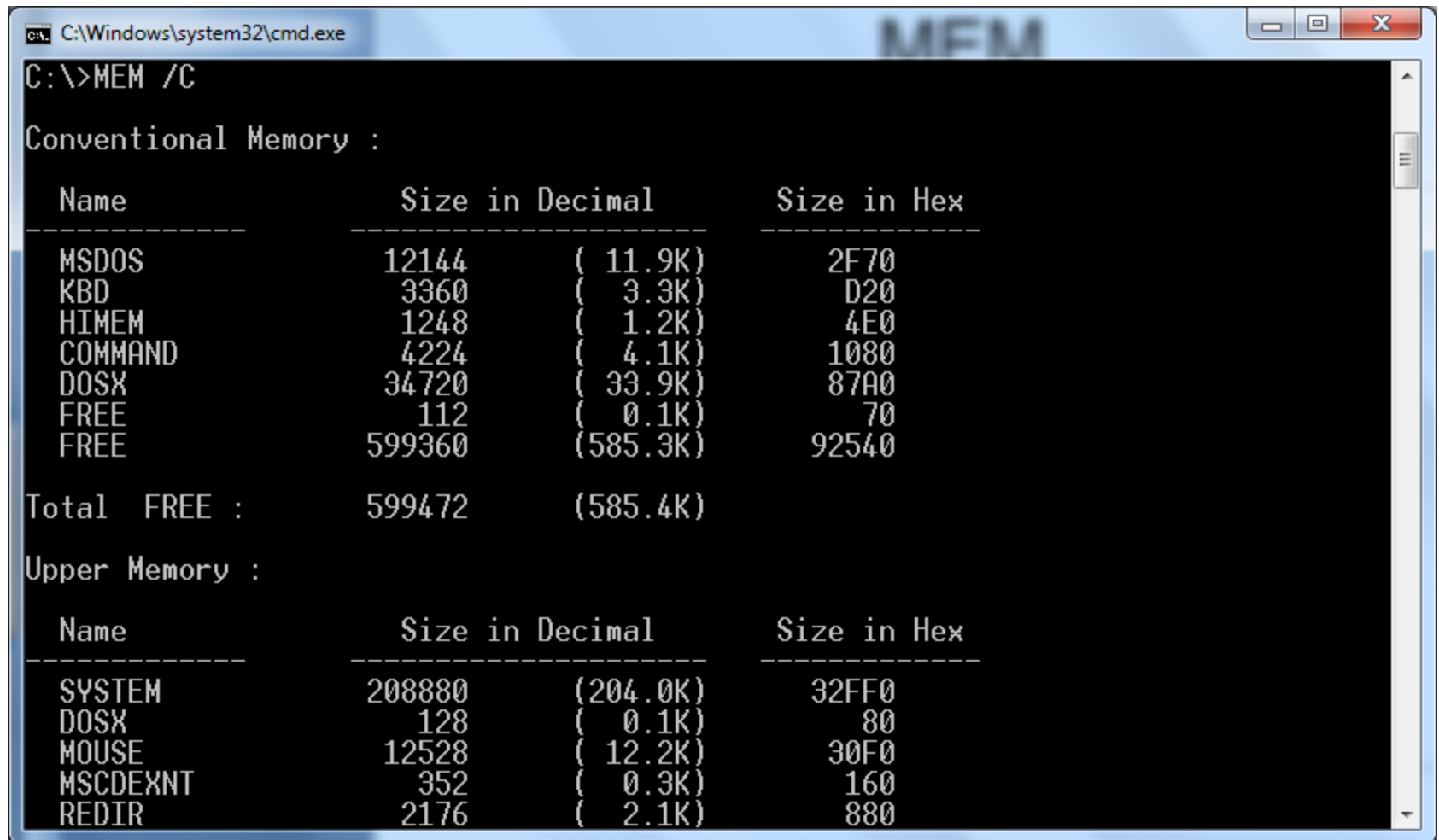
C:\>MEM

    655360 bytes total conventional memory
    655360 bytes available to MS-DOS
    597920 largest executable program size

  1048576 bytes total contiguous extended memory
     0 bytes available contiguous extended memory
   941056 bytes available XMS memory
    MS-DOS resident in High Memory Area

C:\>_
```

MEM (next...)



```
C:\Windows\system32\cmd.exe MEM
C:\>MEM /C

Conventional Memory :

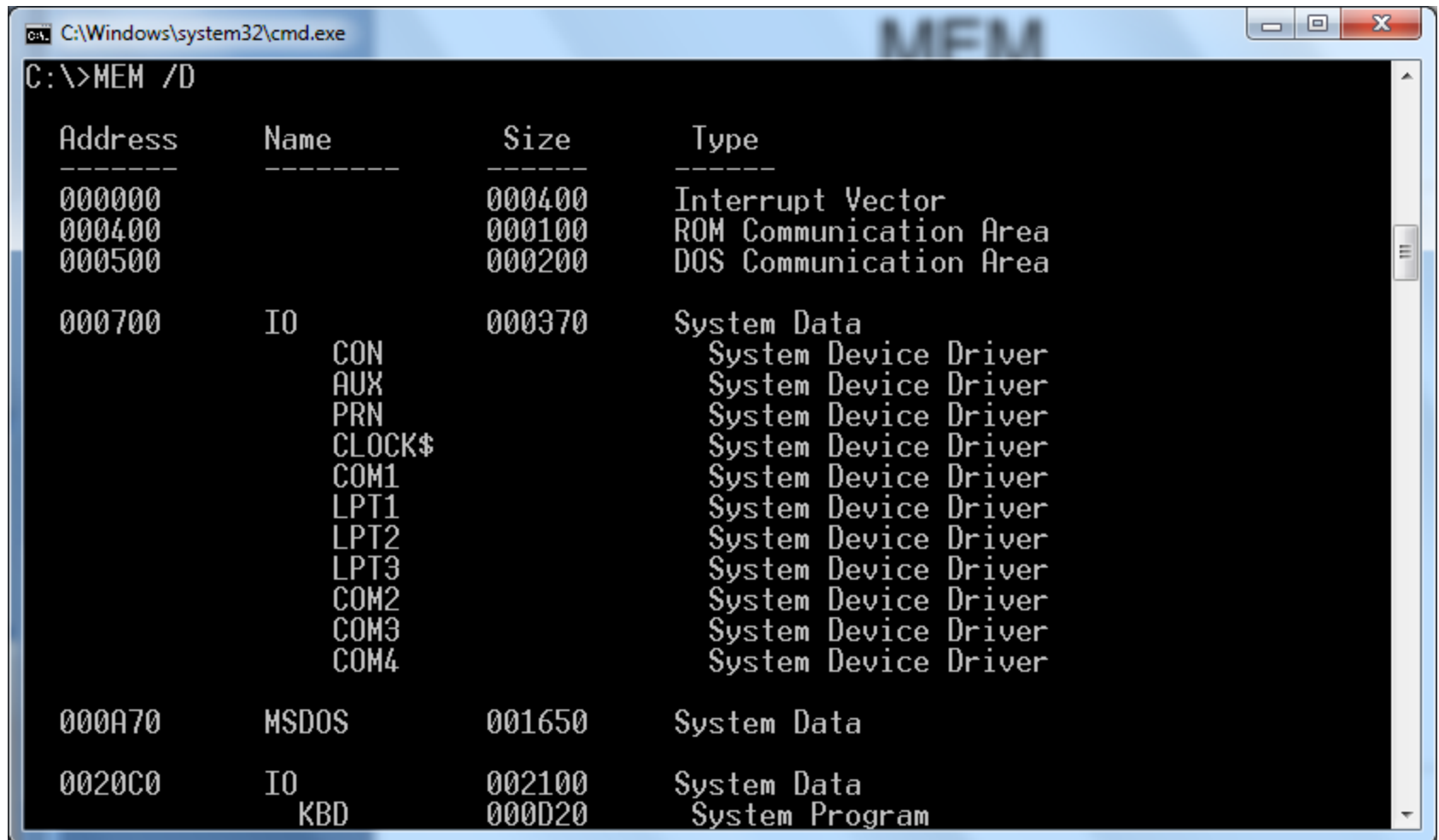
Name                Size in Decimal    Size in Hex
-----
MSDOS                12144              ( 11.9K)        2F70
KBD                  3360               ( 3.3K)         D20
HIMEM                1248              ( 1.2K)         4E0
COMMAND              4224              ( 4.1K)        1080
DOSX                 34720             ( 33.9K)       87A0
FREE                 112               ( 0.1K)         70
FREE                 599360            (585.3K)       92540

Total FREE :        599472            (585.4K)

Upper Memory :

Name                Size in Decimal    Size in Hex
-----
SYSTEM              208880            (204.0K)       32FF0
DOSX                 128              ( 0.1K)         80
MOUSE                12528            ( 12.2K)       30F0
MSCDEXNT             352              ( 0.3K)         160
REDIR                2176             ( 2.1K)         880
```


MEM (next...)



```
C:\Windows\system32\cmd.exe MEM
C:\>MEM /D

Address      Name          Size          Type
-----
000000      000400      Interrupt Vector
000400      000100      ROM Communication Area
000500      000200      DOS Communication Area

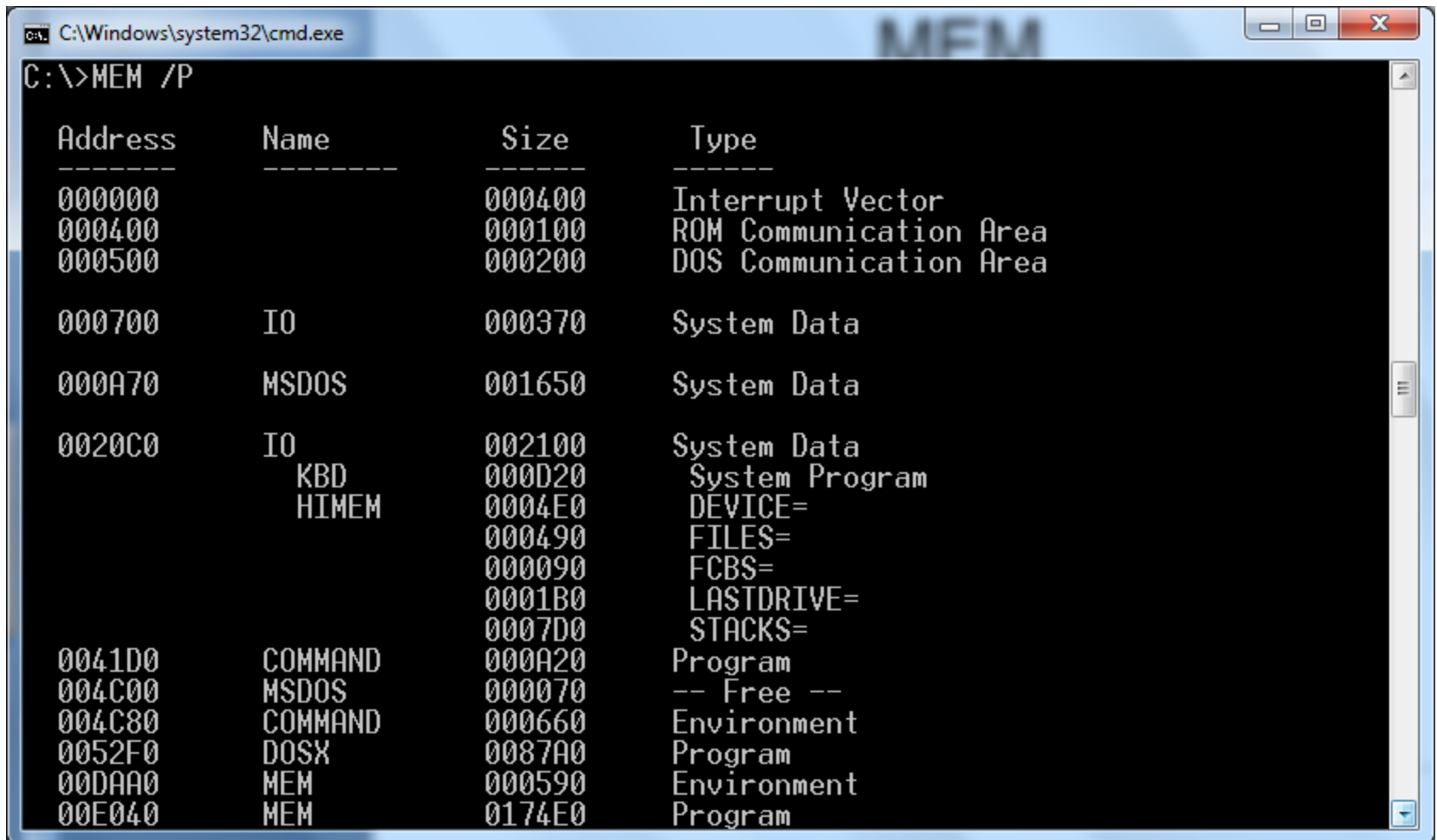
000700      IO           000370      System Data
                CON          System Device Driver
                AUX          System Device Driver
                PRN          System Device Driver
                CLOCK$      System Device Driver
                COM1         System Device Driver
                LPT1         System Device Driver
                LPT2         System Device Driver
                LPT3         System Device Driver
                COM2         System Device Driver
                COM3         System Device Driver
                COM4         System Device Driver

000A70      MSDOS        001650      System Data

0020C0      IO           002100      System Data
                KBD          000D20      System Program
```

MEM

(next...)



```
C:\Windows\system32\cmd.exe MEM
C:\>MEM /P

Address      Name          Size          Type
-----
000000      000400      Interrupt Vector
000400      000100      ROM Communication Area
000500      000200      DOS Communication Area

000700      IO           000370      System Data

000A70      MSDOS       001650      System Data

0020C0      IO         002100      System Data
          KBD       000D20      System Program
          HIMEM    0004E0      DEVICE=
          000490      FILES=
          000090      FCBS=
          0001B0      LASTDRIVE=
          0007D0      STACKS=

0041D0      COMMAND    000A20      Program
004C00      MSDOS     000070      -- Free --
004C80      COMMAND    000660      Environment
0052F0      DOSX      0087A0      Program
00DAA0      MEM       000590      Environment
00E040      MEM       0174E0      Program
```

MEM

(next...)

1. Tiap mahasiswa mengamati & memahami hasil yang ditampilkan oleh perintah MEM, MEM /C, MEM /D, dan MEM /P
2. Tulislah dan jelaskan apa saja yang ditampilkan oleh perintah MEM, MEM /C, MEM /D, dan MEM /P disesuaikan dengan kondisi komputer setiap mahasiswa.
3. Jelaskan apa yang menjadi perbedaan yang ditampilkan oleh perintah MEM /D dan MEM /P

MEM

(next...)

4. Membahas nomor 1, 2, dan 3 di laporan praktikum.

5. Selamat mengerjakan laporan praktikum.

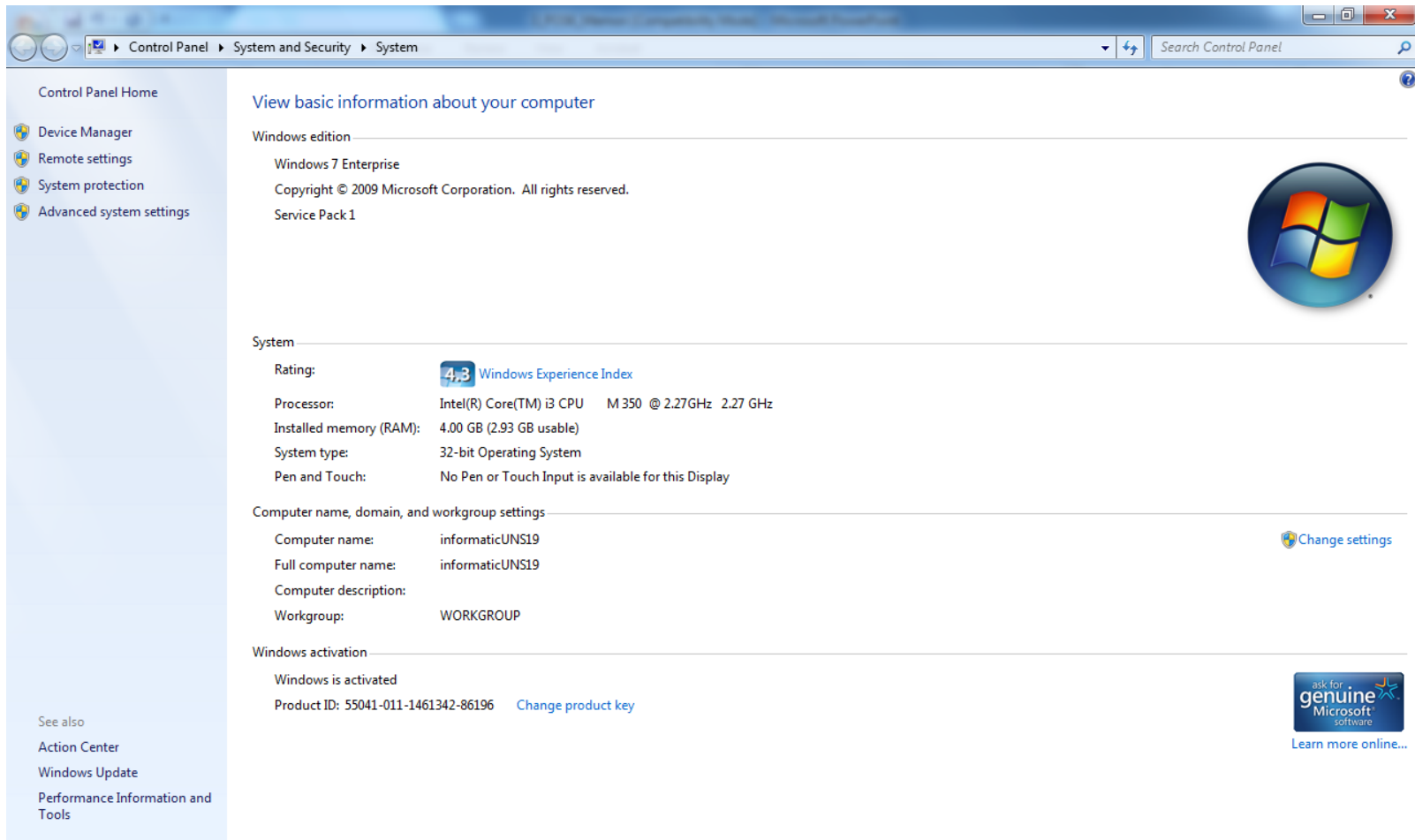


view basic information about
your computer

view basic information about your computer

1. Klik start button
2. Pilih Computer
3. Lalu klik kanan Computer
4. Pilih Properties
5. Komputer akan menampilkan :

view basic information about your computer (next...)



The screenshot shows the Windows 7 Control Panel window for the 'System' section. The window title is 'Control Panel > System and Security > System'. The left sidebar contains links to 'Control Panel Home', 'Device Manager', 'Remote settings', 'System protection', and 'Advanced system settings'. The main content area is titled 'View basic information about your computer' and is divided into several sections:

- Windows edition:** Windows 7 Enterprise, Copyright © 2009 Microsoft Corporation. All rights reserved., Service Pack 1. A large Windows logo is displayed to the right.
- System:** Rating: 4.3 Windows Experience Index; Processor: Intel(R) Core(TM) i3 CPU M 350 @ 2.27GHz 2.27 GHz; Installed memory (RAM): 4.00 GB (2.93 GB usable); System type: 32-bit Operating System; Pen and Touch: No Pen or Touch Input is available for this Display.
- Computer name, domain, and workgroup settings:** Computer name: informaticUNSI9; Full computer name: informaticUNSI9; Computer description: ; Workgroup: WORKGROUP. A 'Change settings' link is present.
- Windows activation:** Windows is activated; Product ID: 55041-011-1461342-86196; Change product key link.

At the bottom left of the sidebar, there are links for 'See also', 'Action Center', 'Windows Update', and 'Performance Information and Tools'. At the bottom right, there is a 'genuine Microsoft software' logo and a 'Learn more online...' link.

view basic information about your computer (next...)

1. Lihat bagian Installed Memory (RAM)
2. Tulislah dan jelaskan yang ditampilkan oleh Installed Memory (RAM) di laporan praktikum.
3. Selamat mengerjakan laporan praktikum.
😊

CHKDSK dan Flash Disk

CHKDSK dan Flash Disk

CHKDSK kepanjangan dari CHECK DISK merupakan salah satu perintah dalam DOS (Disk Operating System) yang berfungsi sebagai cek suatu disk yang terhubung di sistem komputer (internal dan eksternal).

Format penggunaan perintah CHKDSK :

```
CHKDSK [volume[[path]filename]] [/F] [/V]
[/R] [/X] [/I] [/C] [/L[:size]] [/B]
```

CHKDSK dan Flash Disk (next...)

1. Buka command prompt di windows dengan mengetikkan cmd pada textbox Search programs and files di Start Button.
2. Pasang Flash Disk di USB Port
3. Amati di Windows Explorer, Flash Disk tersebut terdeteksi sebagai partisi apa. Misalnya sebagai partisi F.
4. Ketikkan perintah CHKDSK F: pada command prompt di windows kemudian tekan tombol Enter.

CHKDSK dan Flash Disk (next...)

5. Lakukan lagi untuk perintah CHKDSK :

CHKDSK F: /F

CHKDSK F: /V

CHKDSK F: /R

CHKDSK F: /L

CHKDSK F: /X

CHKDSK F: /I

CHKDSK F: /C

CHKDSK F: /B

CHKDSK dan Flash Disk (next...)

6. Jelaskan apa yang ditampilkan dari

CHKDSK F:

CHKDSK F: /F

CHKDSK F: /V

CHKDSK F: /R

CHKDSK F: /L

CHKDSK F: /X

CHKDSK F: /I

CHKDSK F: /C

CHKDSK F: /B

CHKDSK dan Flash Disk (next...)

7. Bahas nomor 6 di laporan praktikum.

8. Selamat mengerjakan laporan praktikum



Tugas Praktikum

Tugas Praktikum

1. Print out hasil percobaan MEM; view basic information about your computer; CHKDSK dan Flash Disk
2. Bahas dalam laporan praktikum
3. Selamat mengerjakan laporan praktikum.



See You Next Time