Bahasa C

Denny Chandra, S.T.

Who am I ?

- Denny Chandra, S.T.
- Teknik Elektro Unila 2001
- Kegiatan :
  - Lecture : AMIK/STMIK Teknokrat, AMIK Master Komputer (Freelance)
  - Programmer (Freelance)
  - Trainer (Programming)
- Hobi : Musik,Membaca, Coding ☺

Kompetensi teknis

- Java
  - J2SE (Swing, JDBC)
  - J2EE (Servlet, JSP)
- PHP
- MySQL 5

Programming language

- Java
- PHP
- Visual Basic 6
- Visual Basic .NET 2003
- Ajax

Contact

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- Blog : dcstardev.wordpress.com

Question?

Quis 0 (15 Menit)

1. Programming itu?
   - ❑ Mudah
   - ❑ Sulit
2. Tertarik dengan programming?
   - ❑ Ya
   - ❑ Tidak
3. Prospek programmer di dunia kerja?
4. Bahasa pemrograman yang telah dipelajari?

Question ?

Kontrak perkuliahan

- Quis 1 : 10 %
- UTS : 30 %
- Quis 2 : 10 %
- UAS : 35 %
- Tugas : 15 %

Peraturan

- Maksimal terlambat 15 menit
- Pakaian
  - Kaos : Berkerah
  - Kaos oblong + jaket?
- Peraturan akademik

Question ?

silabus

- Bahasa C
- Algoritma

What is c ?

- C is an **ideal language** with which to **learn programming**,
- C is a very **compact language**, so there isn't a lot of syntax to learn before you can write real applications,
- C Is used for programming at **all levels**, from device drivers, microcontroller and operating system components to large-scale applications,
- Programming in C **isn't difficult**,

How to learn programming ?

- First, there *is* quite a lot to learn, but this means you'll gain a greater sense of satisfaction when you've mastered it,
- It's great fun, so you really will enjoy it,
- Learn programming by doing it,
- It's much easier than you think, so you positively *can* do it.
- Find more references : books, e-books, internet

tools

- C compiler and library installed so that you can execute the examples,
- Program text editor for preparing your source code files,
- IDE : Borland C++, DevCpp

Question ?

How to program in c

- Editing
- Compiling
- Linking
- Executing

Editing

- Creating and Modifying **source code,**
- Tools : Notepad or IDE (Integrated Development Environment),
- IDE : Borland C++ -> Editing, Managing, Developing
- File extension : **.c**
- See sample

Compiling

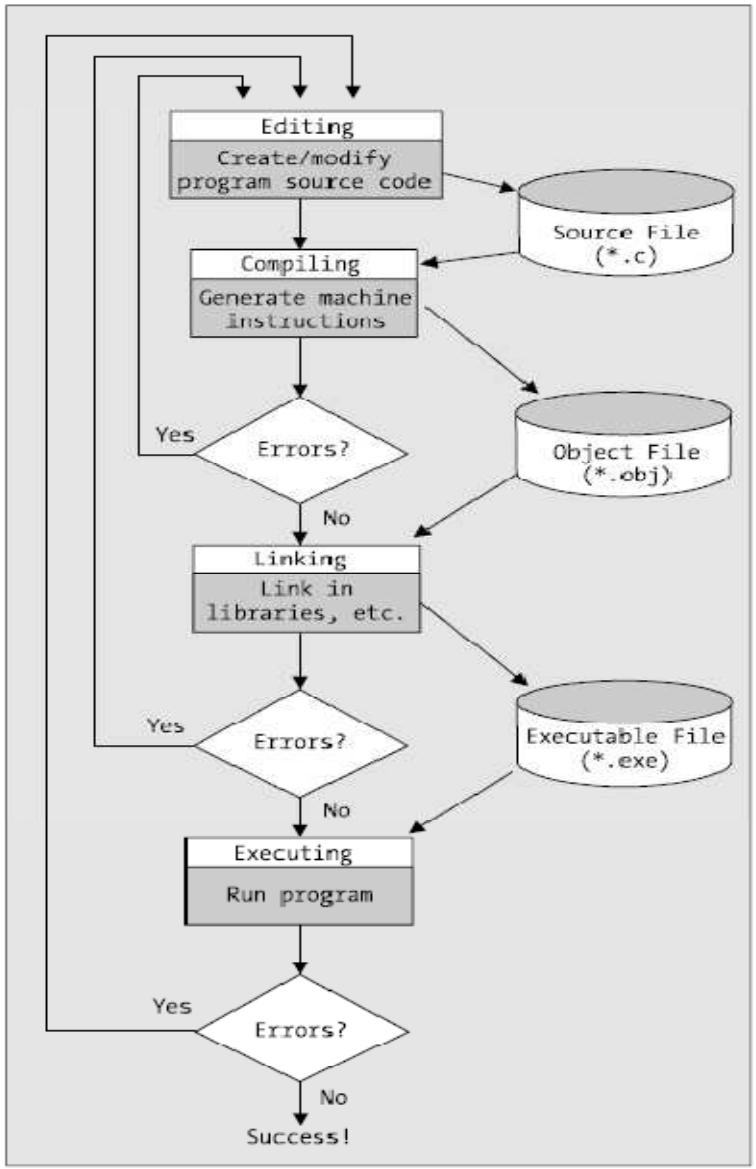
- Compiler convert source code to machine language, detect and report error in the compilation process,
- The output from the compiler is known as object code and is stored in files called object filesLinking,
- Extension : **.obj** (Mcrosoft Windows)
- See sample

linking

- The linker combines the various modules generated by the compiler from source code files,
- The set of source files that make up the program will usually be integrated under a **project name** (Managing by IDE),
- A failure during the linking phase means that once again you have to go back and edit your source code,
- Extension (if success) : **.exe** (Microsoft

Executing

- Running **.exe**


Editing
Create/modify program source code
Source File (*.c)
Compiling
Generate machine instructions
Object File (*.obj)
Yes
Errors?
No
Linking
Link in libraries, etc.
Executable File (*.exe)
Yes
Errors?
No
Executing
Run program
Yes
Errors?
No
Success!

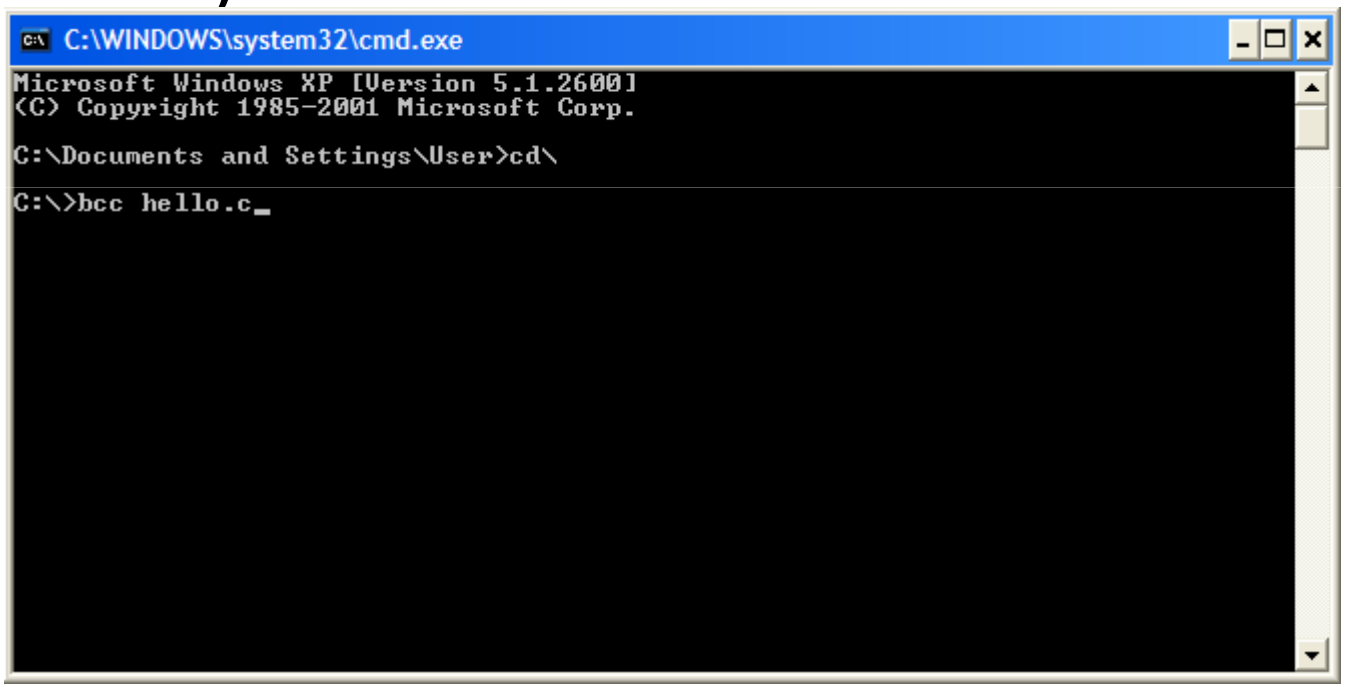
Let’s try

- Editing
  - Open Notepad
  - Save as hello.c

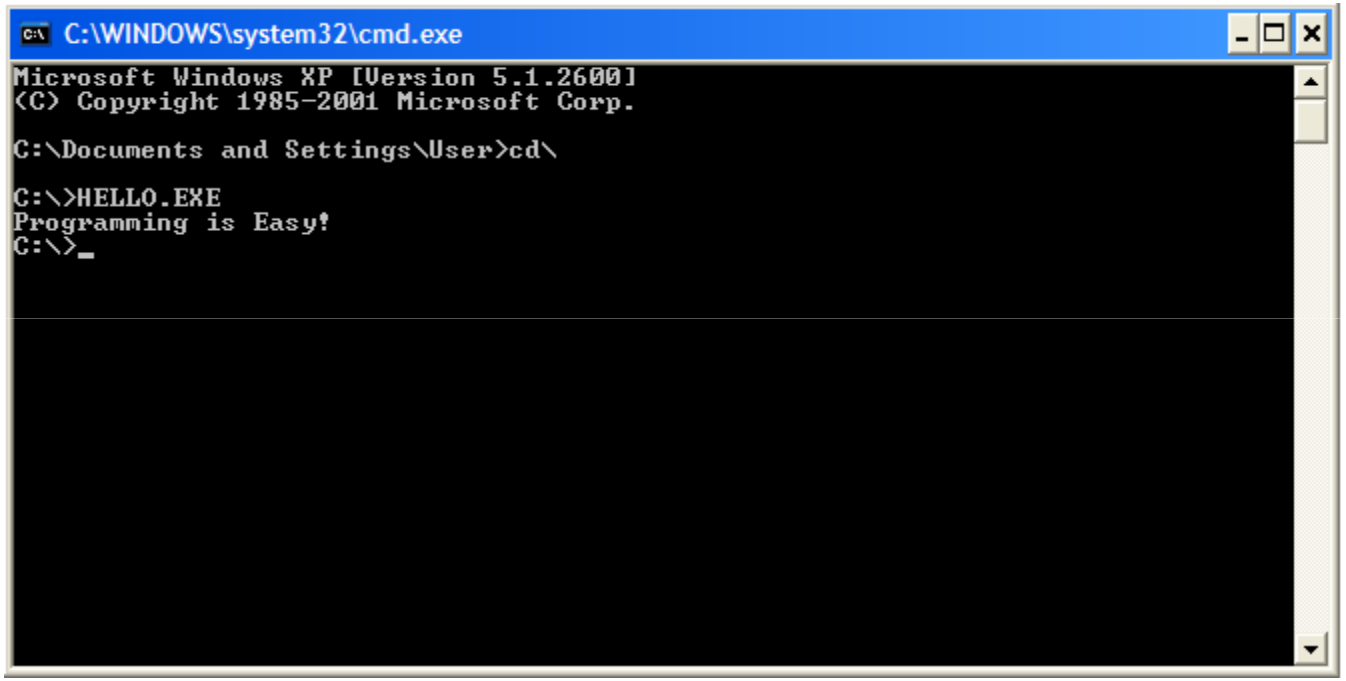
```
#include <stdio.h>
main(){
   printf(“Programming is Easy!”);
   getch();
}
```

Compiling and linking

- Open Command Prompt (Borland C++ was installed)



executing


C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\User>cd\
C:\>HELLO.EXE
Programming is Easy!
C:\>

Question ?