환영합니다

Welcome

欢迎 Selamat datang

स्वागत छ

स्वागत है

Кош келиңиз እንኳን ደህና መጡ

Добро пожаловать

স্বাগতম

خوش آمدید Chào mừng bạn

C Programming

Welcome!!

Please check attendance individually.

(Mobile App)

Professor Kweon, Tae Deok 권태덕

tdkweon@wsu.ac.kr
042-629-6647
Office Location: W19 Room 232
Office Hours: Mon. ~ Thr. (13:00 ~ 17:00)

WOOSONG UNIVERSITY AI & Big Data

Major in Computer Science

Samsung Electronics.
Video Display Division
(Advanced Tech.)

Samsung Global R&D Center
@shaghai (Director)

Samsung Electronics.
Manufacturing Process Tech.
(Smart Factory)

C, C++, Python, JS, React Native
Data ETL, Serial bus Tech.

Github for C class

https://github.com/prof-kweon/2025-Fall-C-Language

Students

01 Check Attendance (Phone)

02 Check your info @excel (ID, Name, Email)

03 Create an email (recommendation: gmail)

04 Introducing ourselves

Things to do today

01 Contents of C course to learn during the semester

02 Course evaluation

03 Development environment & setup

04 Make the first program with C

Contents of C course to learn during the semester

Week	Contents
1	Course Description, Development Environment setup
2	First program, Compile process, Github+Classroom
3	Introduction of C, Data type, Type Casting, Operator & Git clone
4	Statement (Condition, Loop) Standard Input/Output
5	Function
6	Arrays (strlen, strcpy, strcmp /w string.h)
7	Multi array & String
8	**Midterm exam**
9	Structures
10	Pointers (Function Pointers, Pointer Operations)
11	Advanced pointer & Dynamic Memory Allocation (Pointer array, malloc)
12	File Input/Output (Text vs. Binary file)
13	Preprocesser, External Variables, Split Compilation
14	Mini Project
15	**Final exam**

Reference

The C Programming Language 2nd Edition

https://seriouscomputerist.atariverse.com/media/pdf/book/C%20Programming%20Language%20-%202nd%20Edition%20(OCR).pdf

Any book related to C is fine

Course evaluation

Course evaluation	Distribution of points	Note
Attendance	20 points	by school system
Practice May change later!	10 points	Homework
	10 points	Mini Project
	10 points	Contribution & Attitude
Midterm exam	20 points	Write down what you studied on 2 sheets of A4
Final exam	30 points	Open book or Write down what you studied on 2 sheets of A4
Total	**100**	

* Grades are determined based on relative evaluation.

Break time
(Start at 10:00)

Development Environment & setup

Recommended not to use wifi

01 Chrome & Google drive

02 Github

03 IDE (VS code) & **MinGW**

https://code.visualstudio.com/

04 Make the first my program

Development Environment & setup – Github & Git

01 Make an account

02 Create a repository

03 Create two repositories as public
1. for the class practice
2. for homework & project

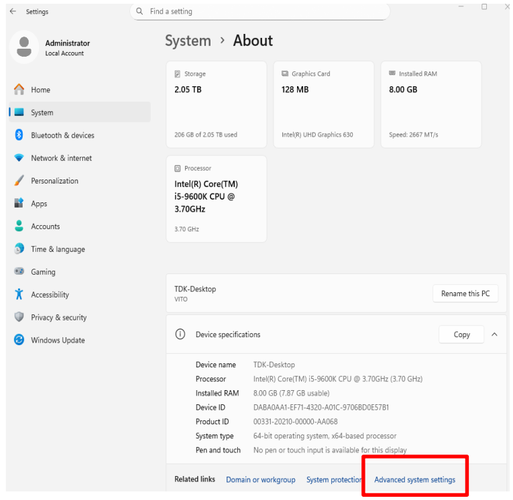
Development Environment & setup - **MinGW**

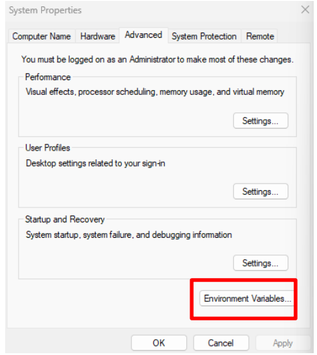
01 Doweload MinGW.zip from woosong LMS in proper directory
https://smart.wsu.ac.kr/mod/ubboard/article.php?id=988992&bwid=200712

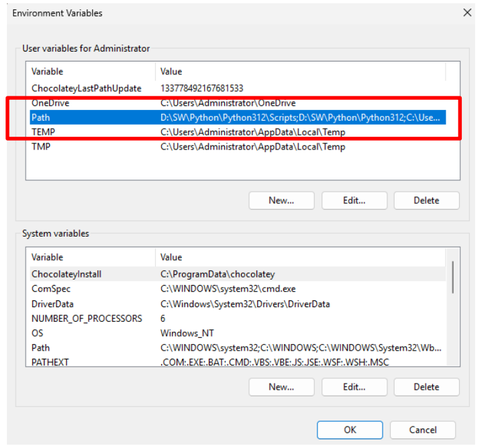
02 “Setting" > “System" > “About" > “Advance System Setting” > "**Environment** Variables" > "**Path**". and **add** the directory to the end of that string. **“c:\folder\mingw64\bin”**

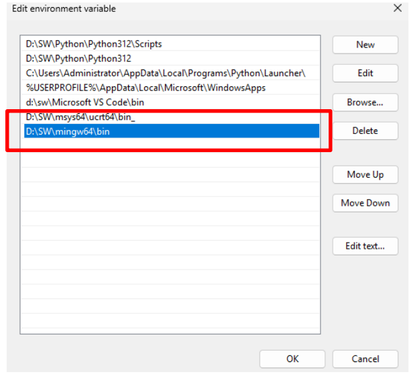
03 Open a terminal “cmd”

04 Type “gcc –version”









Development Environment & setup - IDE (VSCode)

01 Install VSCode

https://code.visualstudio.com/

02 Connect VSCode & Google drive
Open Folder > Select Google Drive (ex, G:\)

03 Create main.c
Install C/C++ Extension Pack & Restart C/C++

04 Verify installation > Build your first program
Open “Terminal”

Write the first my program

main.c

```
#include <stdio.h>

int main() {
    printf("Hello world!\n");
    return 0;
}
```

Build the first my program

Use the -c flag with gcc to compile the source code into an object file without linking.

gcc –c main.c –o main.o => main.o

gcc main.o -o my_program => my_program

If you don’t need an object file and just want an executable, omit the –c flag and use –o flag.

gcc main.c –o my_gragram => my_program

See you next week!
DO NOT miss the classes