## BCSE202L Data Structure and Algorithm

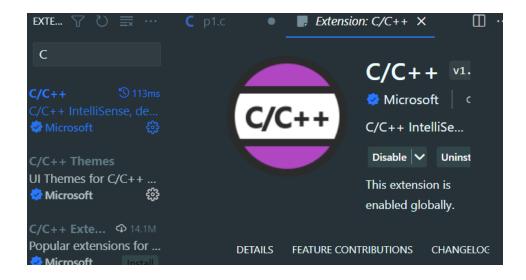
Dr. Durgesh Kumar, Assistant Professor, SCOPE, VIT Vellore

- CodeBlocks + Visual Code studio set up for Running a C Program
  - A. Downloads Code Blocks with MinGW



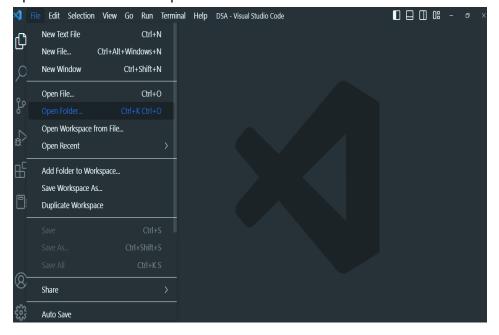
File	Download from
codeblocks-20.03-setup.exe	FossHUB or Sourceforge.net
codeblocks-20.03-setup-nonadmin.exe	FossHUB or Sourceforge.net
codeblocks-20.03-nosetup.zip	FossHUB or Sourceforge.net
codeblocks-20.03mingw-setup.exe	FossHUB or Sourceforge.net
codeblocks-20.03mingw-nosetup.zip	FossHUB or Sourceforge.net
codeblocks-20.03-32bit-setup.exe	FossHUB or Sourceforge.net
codeblocks-20.03-32bit-setup-nonadmin.exe	FossHUB or Sourceforge.net
codeblocks-20.03-32bit-nosetup.zip	FossHUB or Sourceforge.net
codeblocks-20.03mingw-32bit-setup.exe	FossHUB or Sourceforge.net
codeblocks-20.03mingw-32bit-nosetup.zip	FossHUB or Sourceforge.net

- B. Install Code Blocks with MinGW
- C. Add PATH C:\Program Files\CodeBlocks\MinGW\bin to to System PATH
- D. Open Visual code studio and do CTRL + SHift + x ( to search for C/C++ Extension)
- E. Install the C/C++ Microsoft Extension

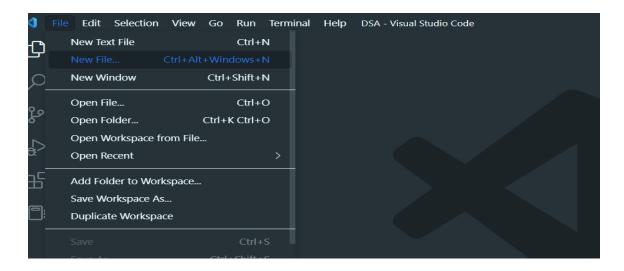


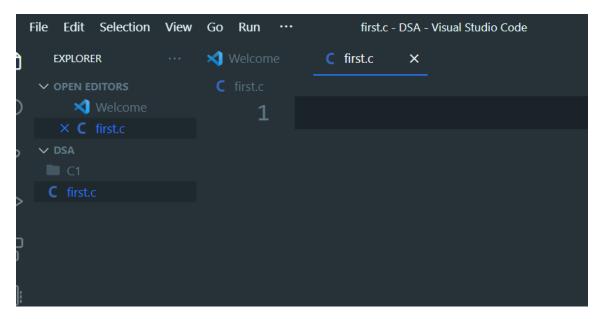
## 2. Running a C Program with Visual Code Studio

- A. Create a folder where you will save your C program. I am creating a folder in my D Drive, with the name DSA.
- B. Open Visual Code and open that folder.



C. Click on New file and save it as first.c





D. Write a sample a program as below and save it using (CTRL+S):

```
File Edit Selection View Go Run ... first.c - DSA - Visual Studio Code

EXPLORER ... | Welcome | C first.c | 1 X |

OPEN EDITORS | main() |

C first.c | 1 |

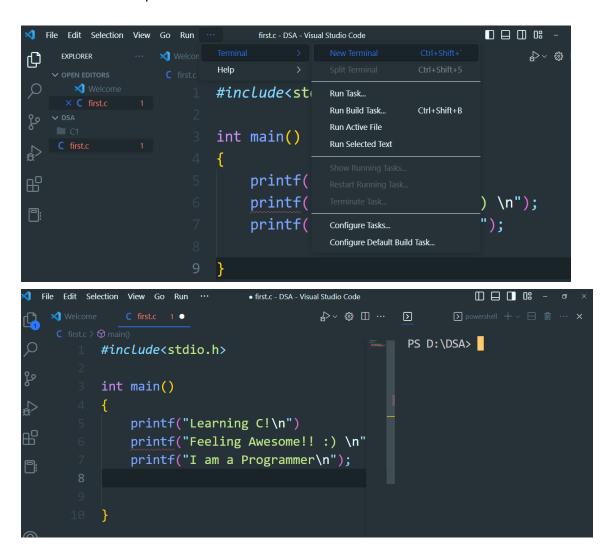
DSA | C1 |

C first.c | 1 |

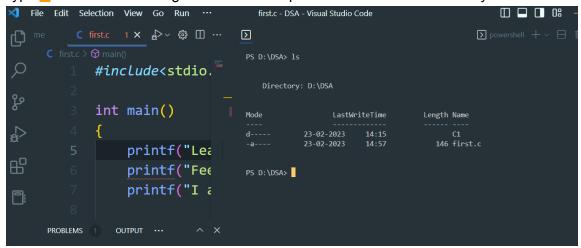
Printf("Learning C!\n") |

printf("I am a Programmer\n");
```

E. Search ... on the top header and click ... -> Terminal -> New Terminal as shown below



F. Type is on the terminal to get the list of files present in the current directory.

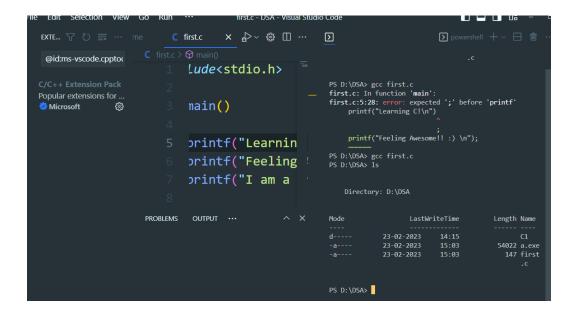


You will see first.c in the listed files

- G. Compile your C file using gcc.
  - a. gcc first.c

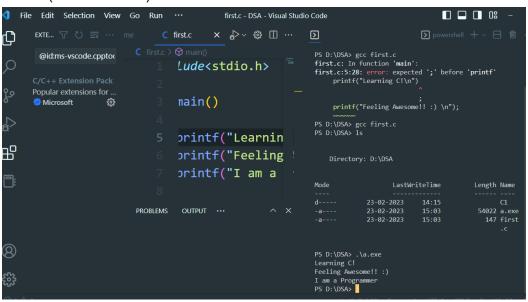


- b. We are getting an error semicolon missing after the printf line. We will fix the error, save it and re-compile it.
- c. When we run Is command again, we can see a.exe (a.out in case of linux or Mac) is generated.



## H. Running Compiled binary file

a. .\a.exe (For Windows)./a.exe (For Linux/Mac)



Congratulations! You have compiled and executed your first C Program on your computer.

Extra tip: Saving the compiled file to your preferred name instead of a.exe or a.out as default.

For Windows

- a) gcc first.c -o first.exe
- b) .\first.exe

URL: