Efficient tools and techniques for modern software development

Visual Studio Code

Vineel Kovvuri Senior SDE @ Microsoft

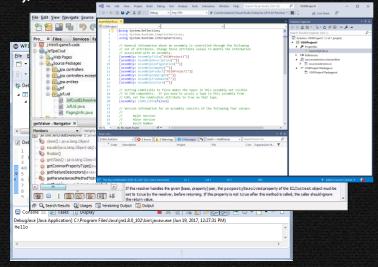


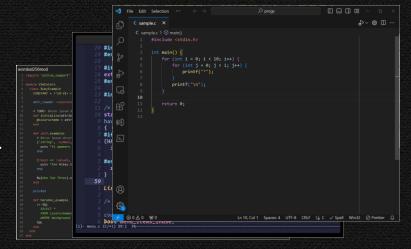
Agenda

- IDE vs Text Editor Why VS Code?
- Installation Launching VS Code
- How to write and execute programs
- Basic Editing/Navigation Tricks *
- The Editor Overview
- Multiple Cursors **
- Extensions
- References

IDE vs Text Editor – Why VS Code?

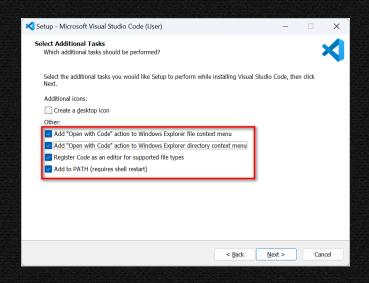
- IDE(Integrated Development Environment) Eclispe/Netbeans/Intellij/Visual Studio*
 - Pros:
 - They include compilers and integrated tools to build end to end projects
 - Cons:
 - Big in size(around few GBs)
 - Cannot handle large projects
 - Usually Paid and not free/open source
- Text Editors Visual Studio Code/Vim/Emacs
 - Pros:
 - Light weight(around few MBs).
 - Can handle large code bases and very versatile and flexible to customize
 - Open source and free of cost
 - Cons:
 - Do not include compilers/debuggers.
 - Building end to end projects require working with build systems separately.
- Please do not use Notepad/Notepad++



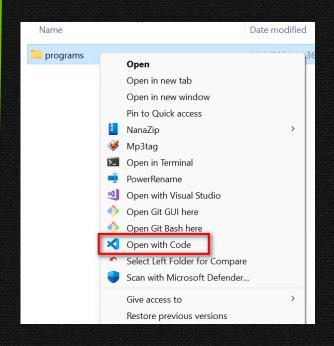


Installation – Launching VS Code

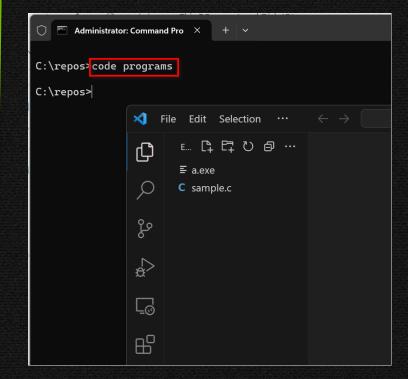
https://code.visualstudio.com/download



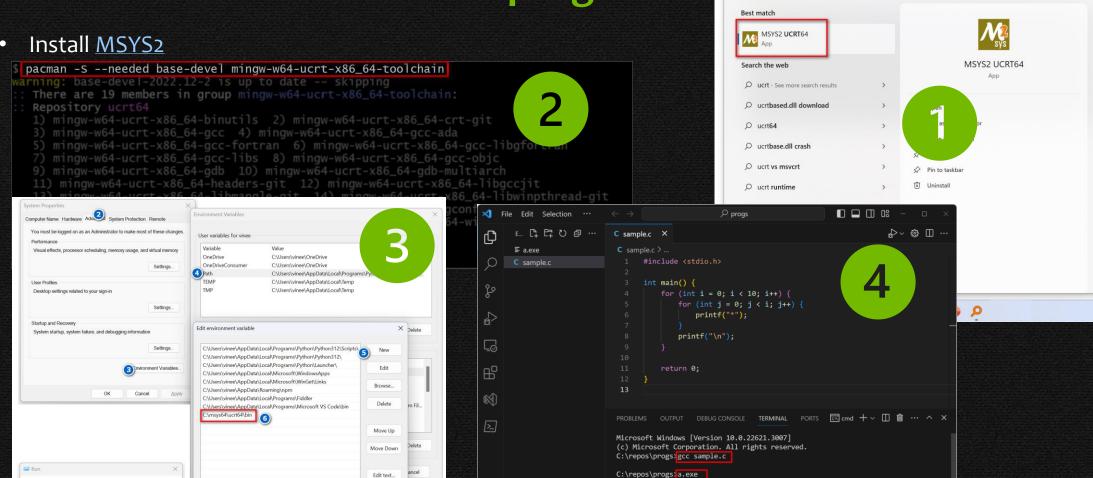
Via Explorer Context Menu



Via Command line – Code.exe



How to write and execute programs?



⊗ 0 ∆ 0 ⊗ 0

*** **** will open a MSYS2 terminal window for you

Ln 13, Col 1 Spaces: 4 UTF-8 CRLF {} C ✓ Spell Win32 ⊘ Prettier ♀

Documents Web

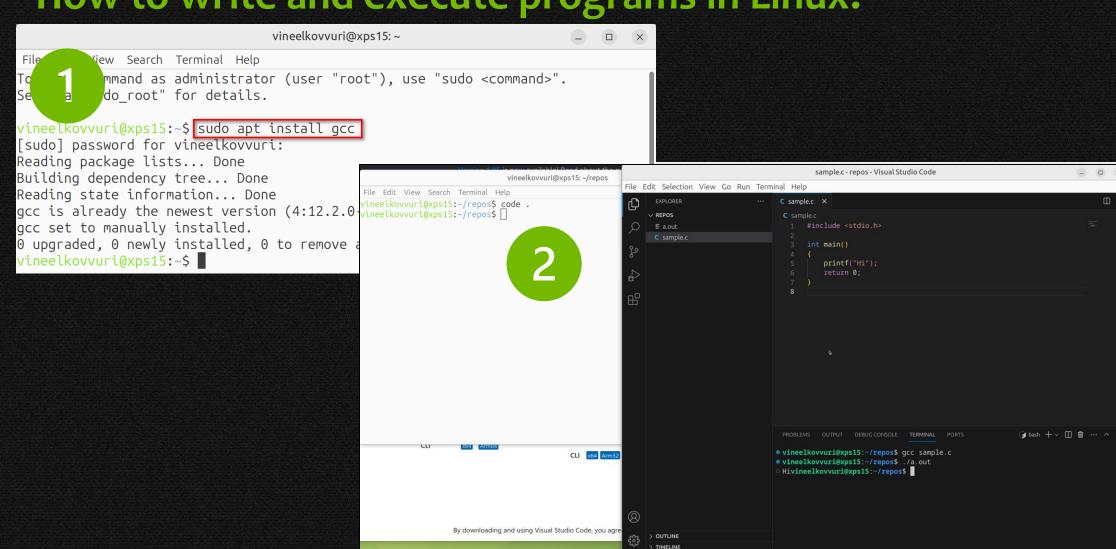
Q ucrt

(b) Chat

Type the name of a program, folder, document, or Internet resource and Windows will open it for you.

Open: sysdm.cpl 1

How to write and execute programs in Linux?

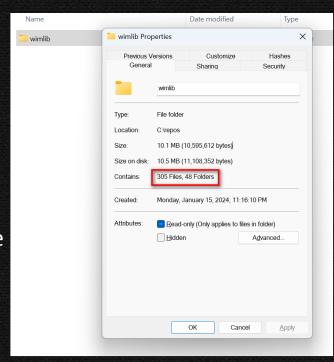


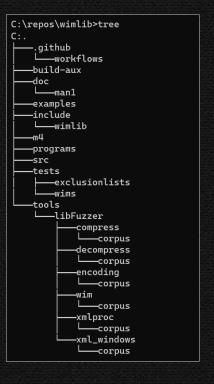
⊗0∆0 %0

The Editor Overview

- Ctrl + Shift + P Open Command Palette
- Ctrl + P Open File from workspace(?)
- Explorer
 - Create files with multiple sub directories deep
 - Compare Files
- Editor tabs Copy Path
- 80/100 Column Guides
- Indent Guides
- Ctrl + F/H Find/Replace in current file
- Scroll bar search highlights
- Ctrl + Shift + F/H Find/Replace in workspace
- Ctrl + \ Splits
- Sticky Scroll

- Ctrl + Shift + \ Find the matching brace
- Alt + Left/Right Navigation history
- Remove blank lines





Basic Editing/Navigation Tricks

Left/Right – Navigate each character left/right

Ctrl – Jump b/w words

Home/End – Move to beginning and end of the line

Shift – Selection character

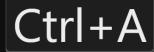
Delete/Backspace – deletes the next/previous character

Ctrl+A – Select all text

VS Code Specific

- Line Operations(no selection)
 - Ctrl + C Copy entire line
 - Ctrl + X Cut Line
- Alt + Down/Up Move lines

- Register a preview feature in your Azure subscriptio
- functionality for a resource provider. Some preview
- 4 Ffeat require approval, the state is Registered. If
- a preview feature requires approval, the registratio
- request approval from the Azure service offering the
- you request access through a support ticket. To requ
- 8 Azure support request. After the registration is app
- 9 state changes to Registered.



Basic editing walkthrough

Multiple Cursor

```
Ctrl + D – Create Multiple cursor at next occurrence – Search Method
Ctrl + Alt + Down/Up – Create Multiple cursors on each line – Drag Method
Shift +Alt + I – Create Multiple Cursors on all selected lines – Select Lines Method
Ctrl+F > Search > Alt+Enter – Create multiple cursor on all occurrences - Find All Method
```

- 1 Register a preview feature in your Azure subscription to expose more
- 2 functionality for a resource provider. Some preview features require
- 3 approval.
- 4
- 5 For a preview feature that doesn't require approval, the state is
- 6 Registered. If a preview feature requires approval, the registration
- 7 state is Pending. You must request approval from the Azure service
- 8 offering the preview feature. Usually, you request access through a
- 9 support ticket. To request approval, submit an Azure support request.
- 10 After the registration is approved, the preview feature's state changes
- 11 to Registered.

12

Multiple Cursors Walkthrough

Extensions

- Align
- Case conversion(Transform)
- Text Pastry 1 to X
- Delete trailing spaces
- Commenting flow Alt + Q
- Prettier Code formatter Shift + Alt + F
- VSCode-PDF extension
- Rainbow CSV extension

Extensions Walkthrough

References

- https://github.com/vineelkovvuri/gvpcoe-sessions-2024/blob/master/VSCode
- https://stackoverflow.com/
- https://www.youtube.com/@code/shorts
- https://code.visualstudio.com/docs

Thank You



Vineel.Kovvuri@gmail.com





