

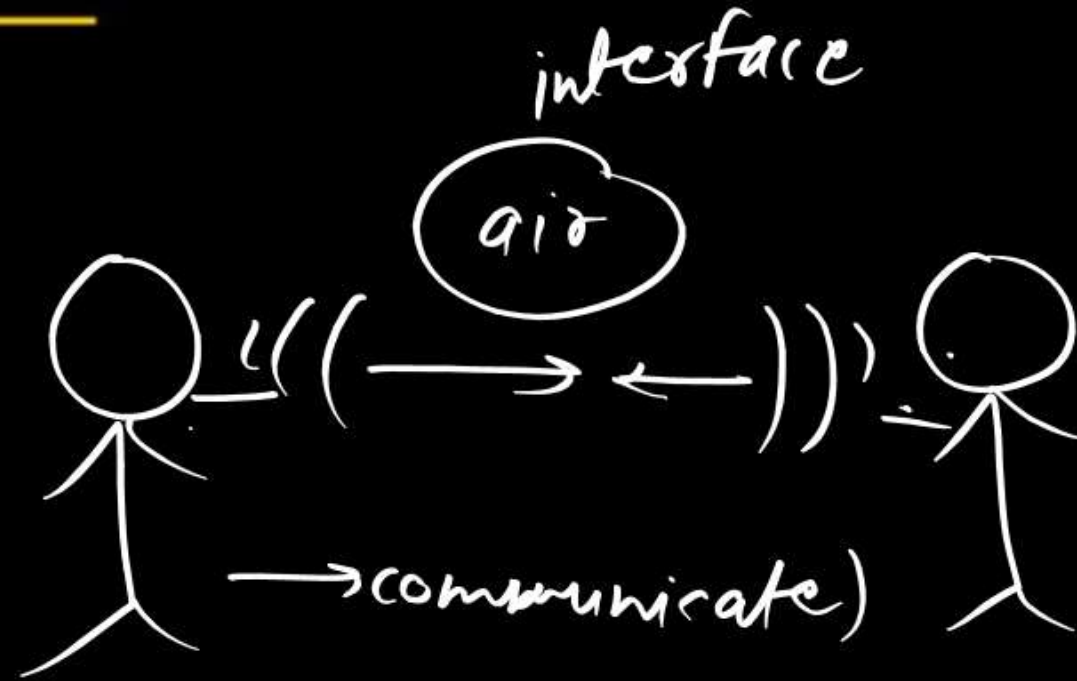
CHAPTER -2

2. Operating System and Application Software

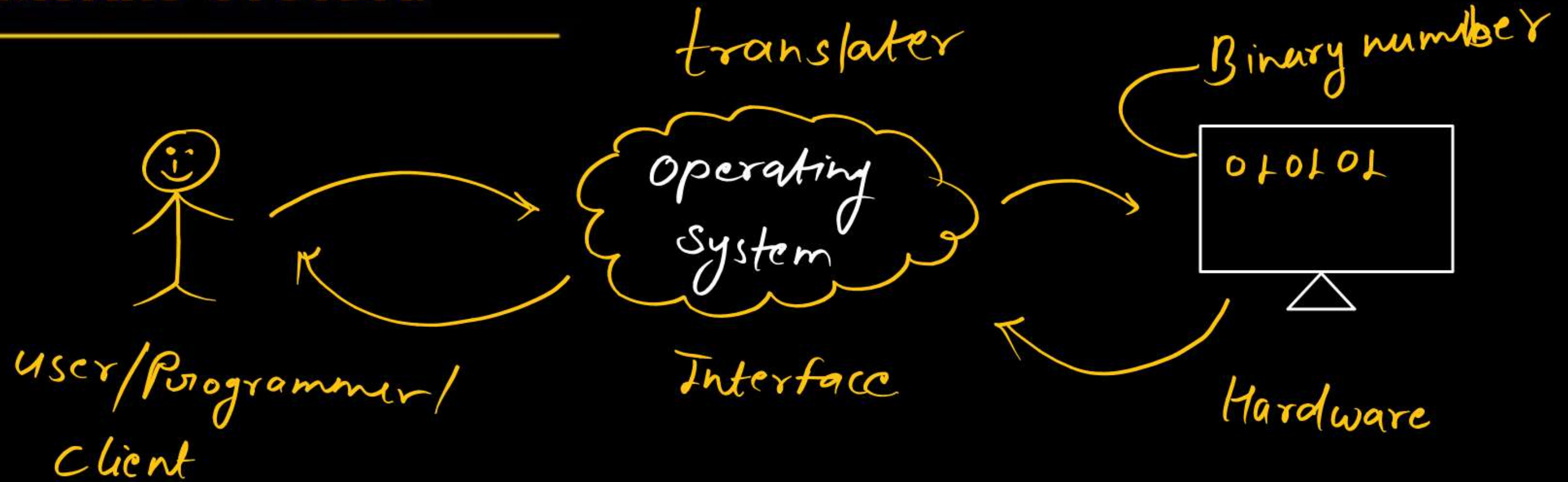
System Software, Application Software, Virtualization Software, Utility Software, MS Office/Open Office/LibreOffice, Working with windows OS, Desktop components, Menu bars, creating shortcut of program. Installation of Application software's, Antivirus and Drivers.

OPERATING SYSTEM:

↳ Interface



OPERATING SYSTEM:



↳ bit (0, 1)
↳ collection of bits
Byte
b (01010101)

Q.1 What is operating System?

Ans: ↳ Interface b/w user/Programmer & computer Hardware. ✓

↳ Resource manager. ✓

↳ Control Programs/System Software. ✓

↳ Set of utilities to simplify application development. ✓

↳ Act like a government. ✓

SOFTWARE:

↳ set of programs

- 1. System software ✓
- 2. Application software

1. SYSTEM SOFTWARE

System software वो software होता है जो computer के Hardware और Application software के बीच communication establish करता है। ये कंप्यूटर को चलाने के लिए जरूरी है।

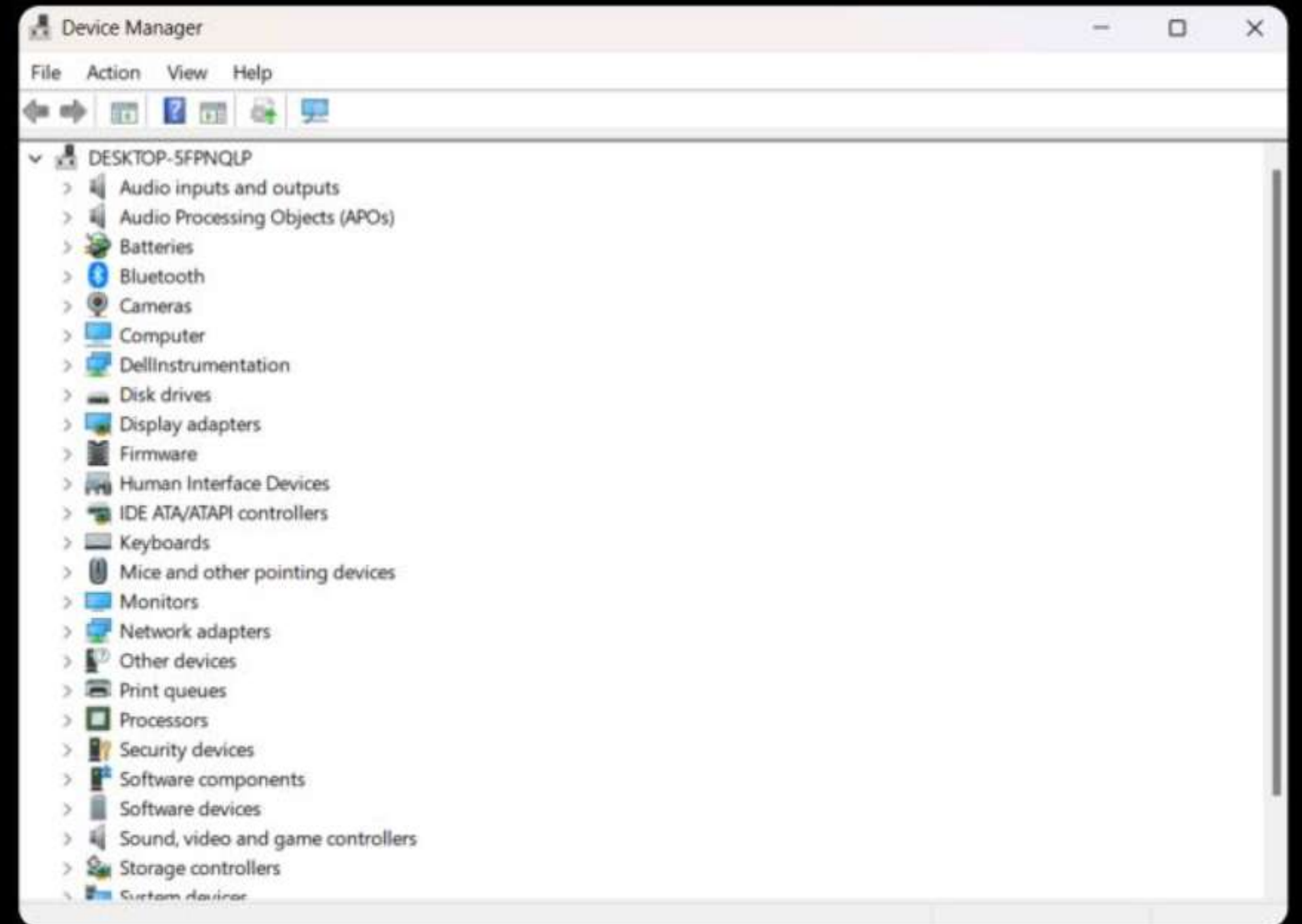
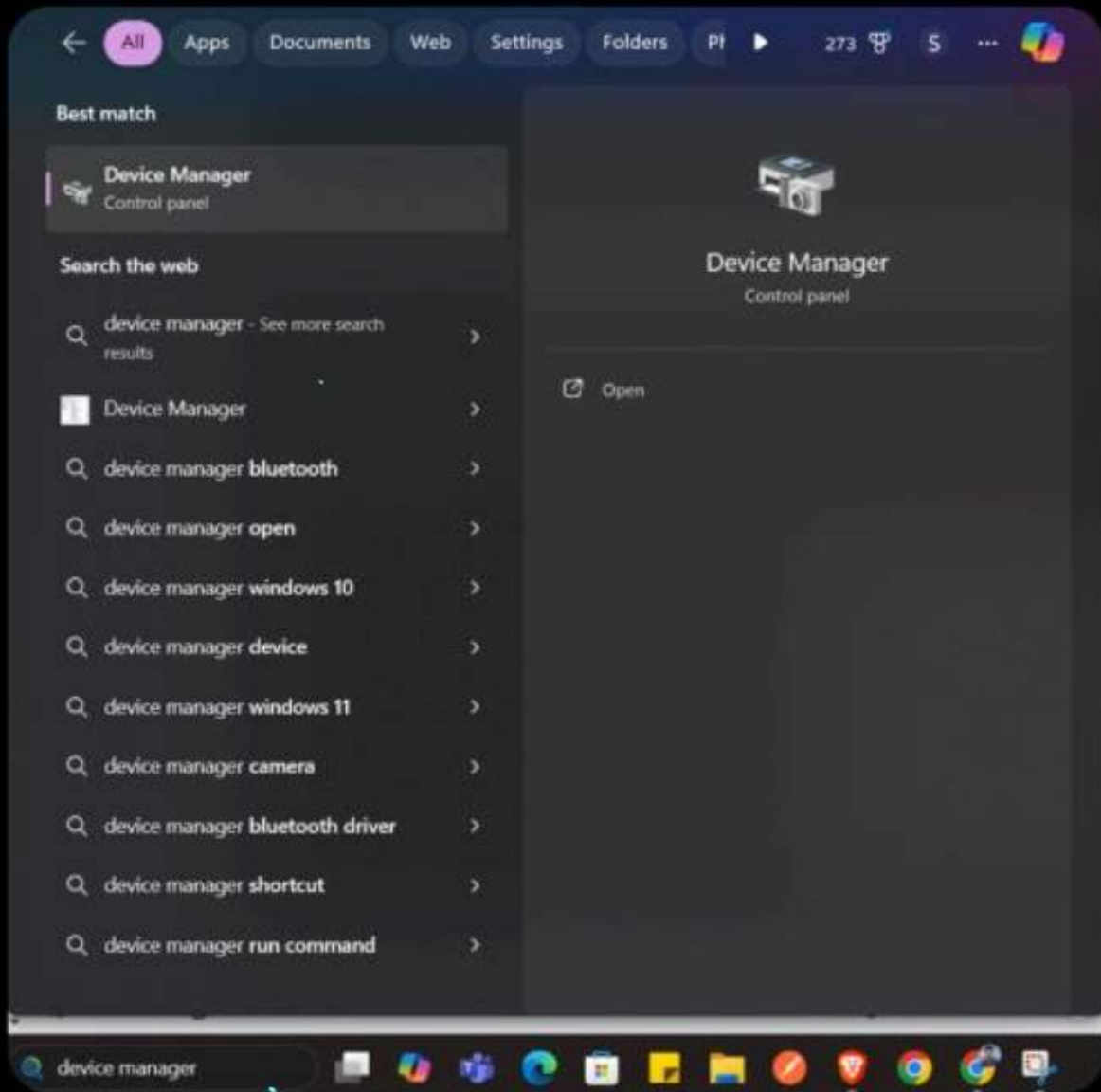
Examples:

- ✓ **Operating System (OS):** Windows, Linux, macOS
- ✓ **Device Drivers:** Printer driver, Graphics card driver
- ✓ **Firmware:** BIOS, UEFI
- ✓ **Utility Software:** Disk Cleanup, Antivirus

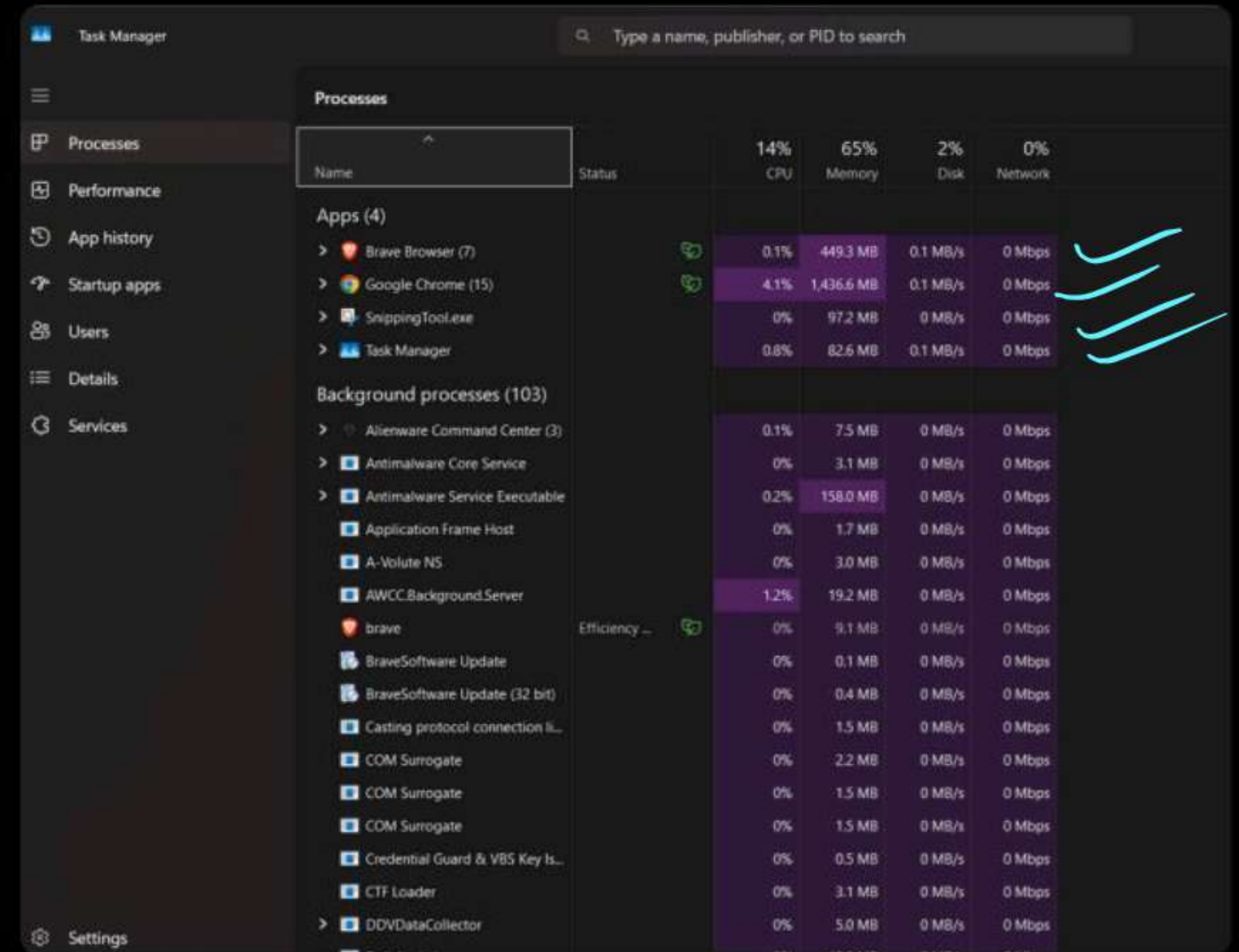
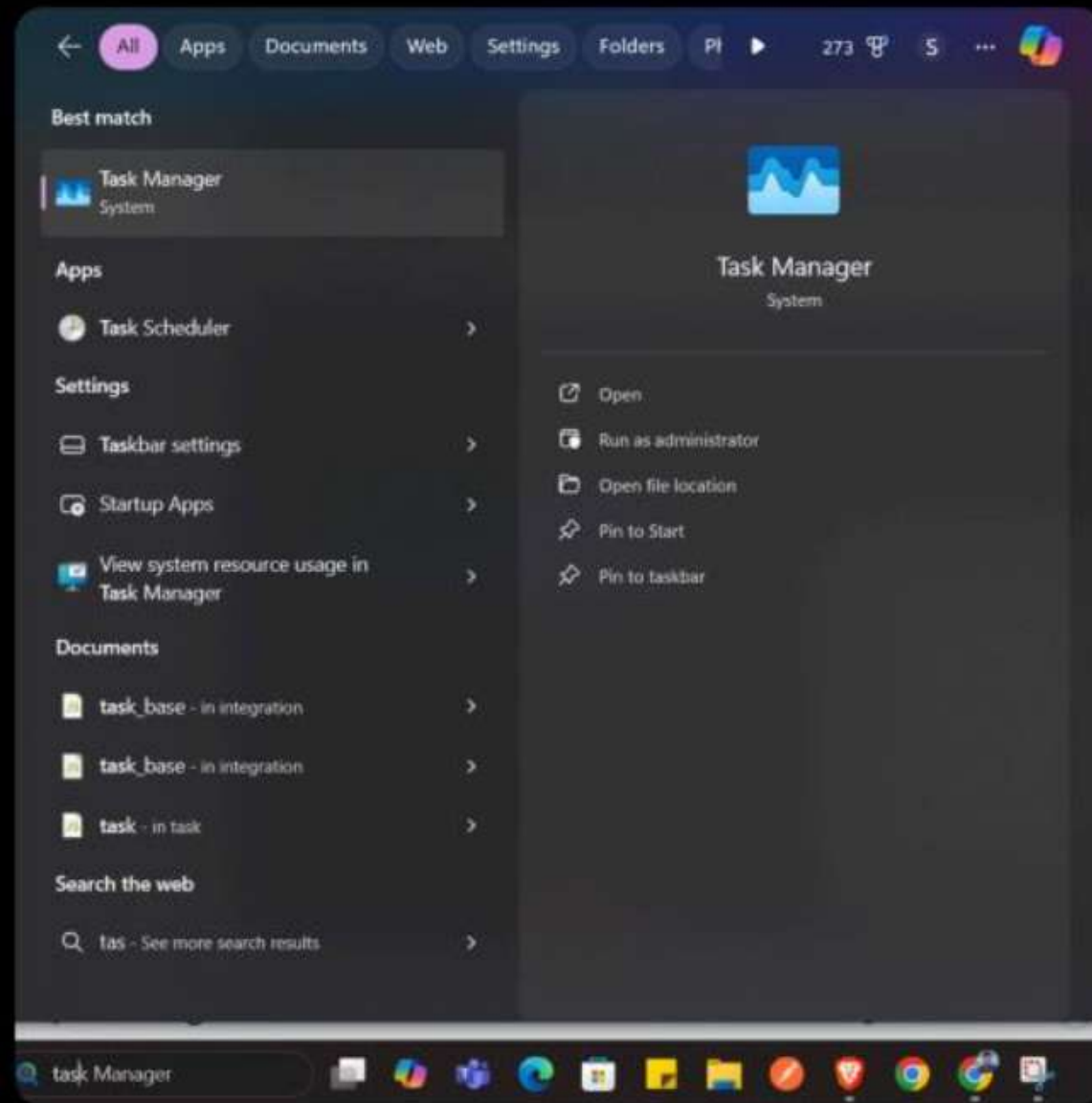
Example Explanation:

जब आप एक नया Printer, connect करते हैं, तो Printer का Driver install करना पड़ता है, ताकि OS और printer एक दूसरे से communicate कर सकें।

- Open Device Manager in Windows and show system software and drivers.



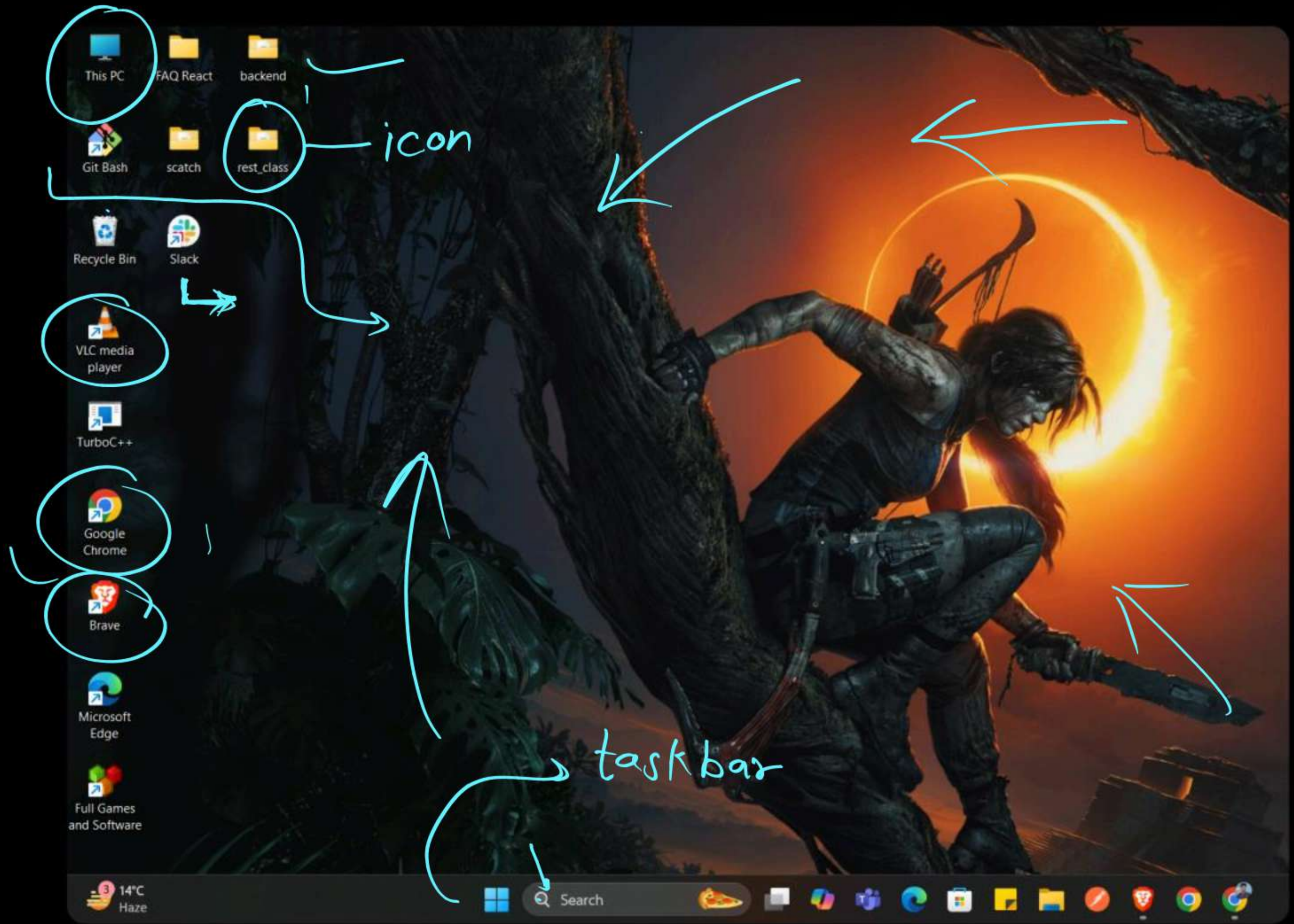
- Go to Task Manager and show background processes.

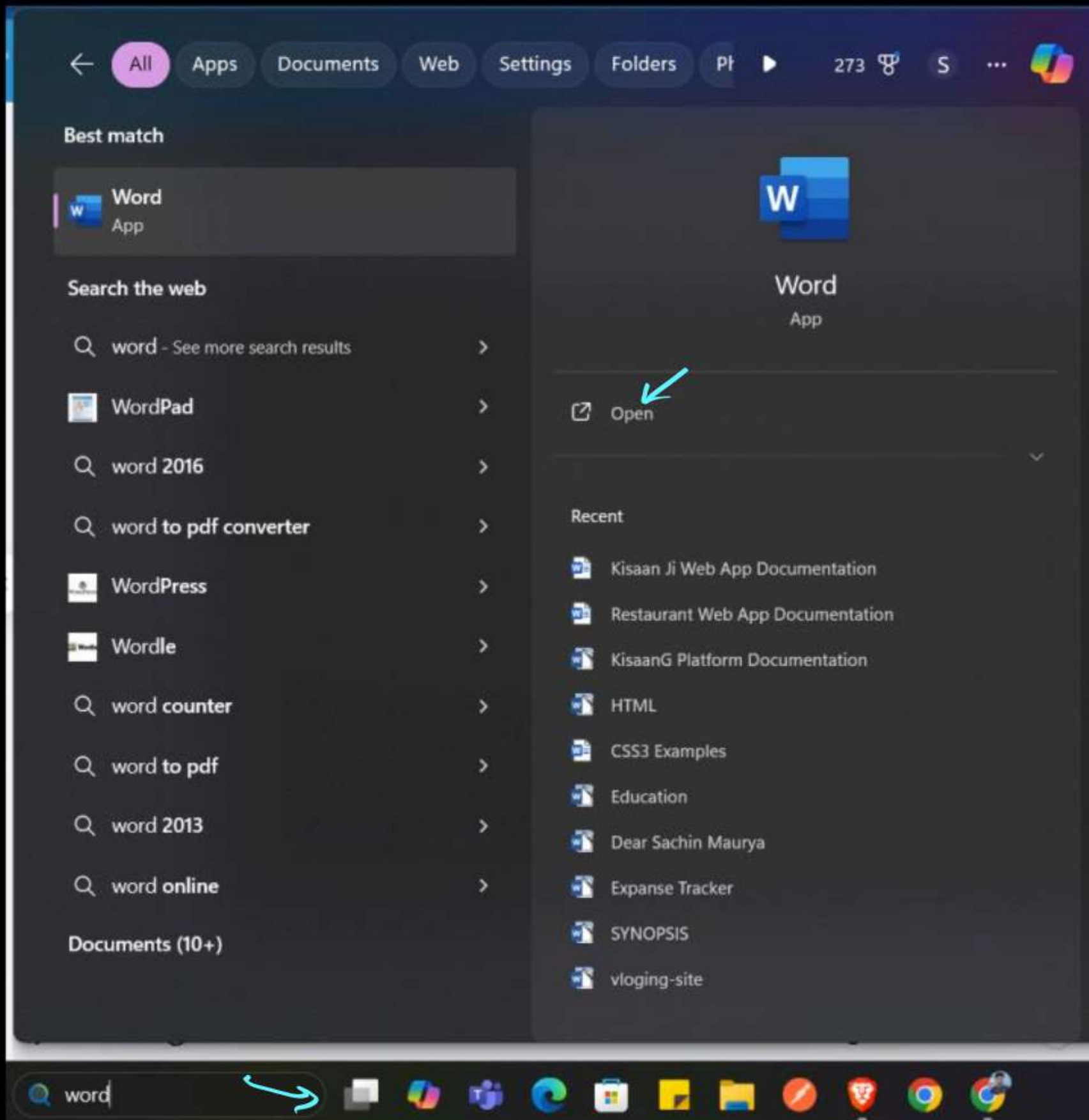


2. APPLICATION SOFTWARE

- जब हम सॉफ्टवेयर इनस्टॉल करते हैं, तो हम usually बात करते हैं एप्लीकेशन सॉफ्टवेयर की, जो हमारे टास्क(Task) को performe करने के लिए बना होता है
- एह सॉफ्टवेयर कार्यों को आसान बनाना है जैसे वर्ड प्रोसेसिंग (MS Word), फोटो एडिटिंग (Photoshop), ब्राउजिंग (Google Chrome), आदि।

- Application software users के विशिष्ट कार्य (specific tasks) करने के लिए होता है, जैसे MS Word से दस्तावेज़(document) लिखना, फ़ोटोशॉप से फ़ोटो संपादित(edit) करना, या Chrome ब्राउज़र से इंटरनेट चलाना।
- हर एक एप्लीकेशन सॉफ्टवेयर का अपना विशिष्ट कार्य होता है जो आपके दैनिक कार्यों को सरल बनाने में मदद करता है।





menubar

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Kisaan Ji Web App Documentation

Overview

Kisaan Ji is a direct-to-farmer marketplace designed to empower farmers and buyers by offering a transparent platform for selling and purchasing agricultural products. The app caters to two primary user roles:

1. **Farmers:** Can list, manage, and sell their products directly to buyers.
2. **Buyers:** Can browse, purchase, and communicate with farmers.

Additionally, the platform includes an **Admin Dashboard** for centralized management and performance tracking.

The platform includes essential features such as dashboards customized for each user role, chat functionality for communication, and transparent transaction management. This document outlines the web app's structure, features, and future planning ideas.

User Roles and Dashboards

1. Farmer Dashboard

- Farmers can:
 - List and manage their products.

Examples:

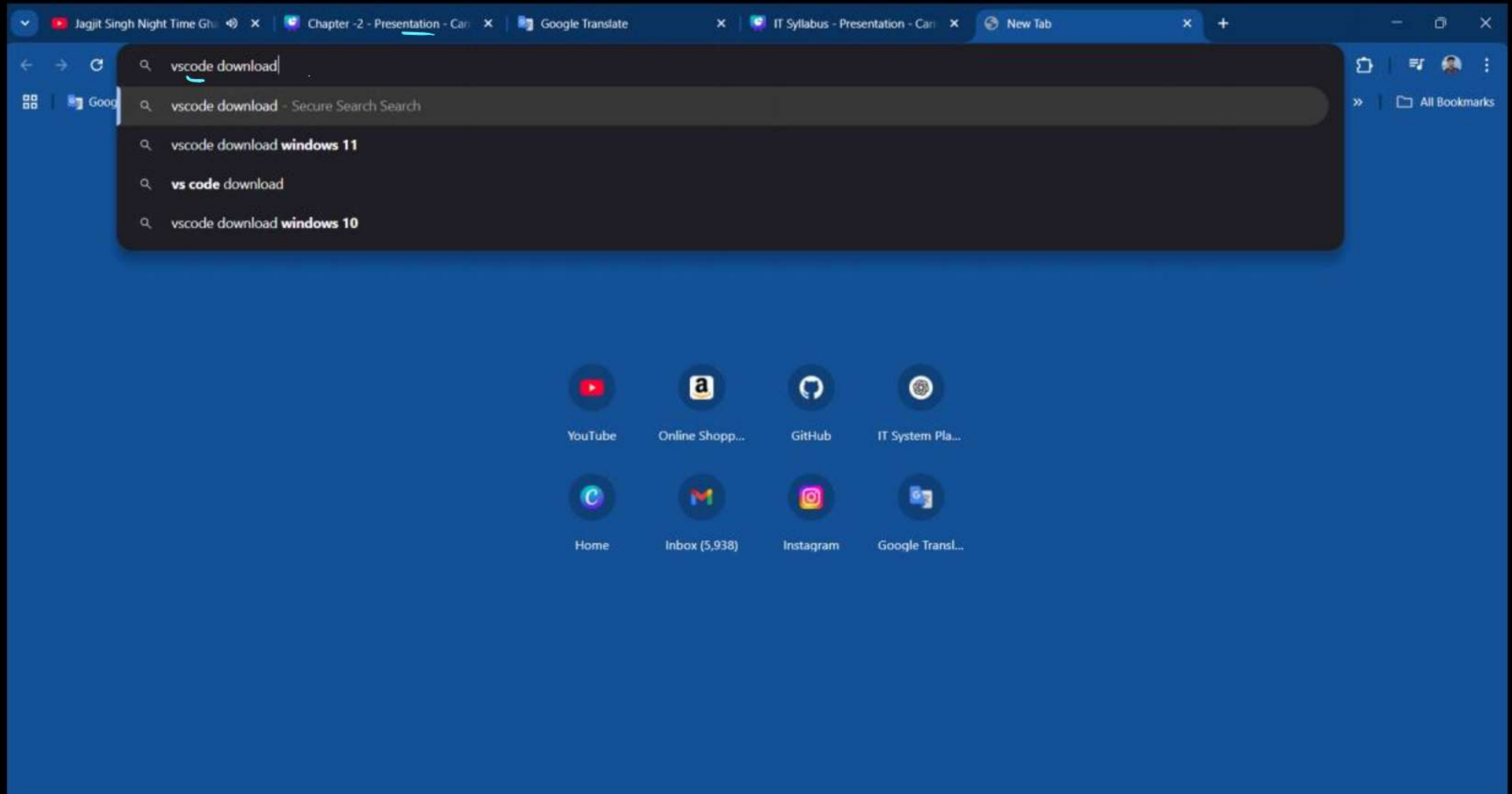
- ✓ **Productivity Software:** MS Office, Google Docs
- ✓ **Multimedia Software:** VLC Media Player, Photoshop
- ✓ **Web Browsers:** Google Chrome, Mozilla Firefox
- ✓ **Communication Software:** Zoom, WhatsApp

Example Explanation:

अगर आप एक बायोडेटा(Resume) बनाना चाहते हैं, तो आप MS Word या Google Docs का उपयोग कर सकते हैं।

Installing the software on Windows:

1. सबसे पहले सॉफ्टवेयर का इंस्टॉलर फ़ाइल डाउनलोड करें, जो आपको सॉफ्टवेयर की वेबसाइट से मिलता है।
2. इंस्टॉलर फ़ाइल पर डबल-क्लिक करें। ✓
3. यूजर अकाउंट कंट्रोल (यूएसी) विंडो ओपन होगी, हां पर क्लिक करें। ✓
4. इंस्टालेशन विज़ार्ड प्रारंभ होगा. नेक्स्ट पे क्लिक करें. ✓
5. लाइसेंस एग्रीमेंट को स्वीकार करें और नेक्स्ट पर क्लिक करें। ✓
6. इंस्टॉलेशन स्थान का चयन करें (डिफ़ॉल्ट सेटिंग्स ठीक होती हैं), फिर इंस्टॉल पर क्लिक करें।
7. इंस्टालेशन पूरा होने के बाद फिनिश पर क्लिक करें।



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Getting started with Visual Studio Code



C++ programming with Visual Studio Code



Using Python Environments in Visual

Visual Studio Code

Source code editor developed by Microsoft



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Visual Studio Code, commonly referred to as VS Code, is an integrated development environment developed by Microsoft for Windows, Linux, macOS and web browsers. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded version control with Git. Users can change the theme, keyboard shortcuts, preferences, and install extension...

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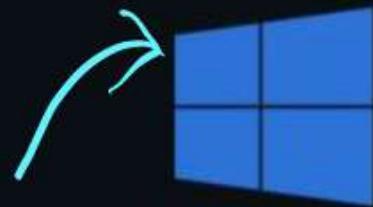
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Free and built on open source. Integrated Git, debugging and extensions.



↓ Windows
Windows 10, 11

User Installer	x64	Arm64
System Installer	x64	Arm64
.zip	x64	Arm64
CLI	x64	Arm64



↓ .deb
Debian, Ubuntu

↓ .rpm
Red Hat, Fedora, SUSE



.deb	x64	Arm32	Arm64
.rpm	x64	Arm32	Arm64
.tar.gz	x64	Arm32	Arm64
Snap	Snap Store		
CLI	x64	Arm32	Arm64



↓ Mac
macOS 10.15+

.zip	Intel chip	Apple silicon	Universal
CLI	Intel chip	Apple silicon	

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GETTING STARTED

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C++

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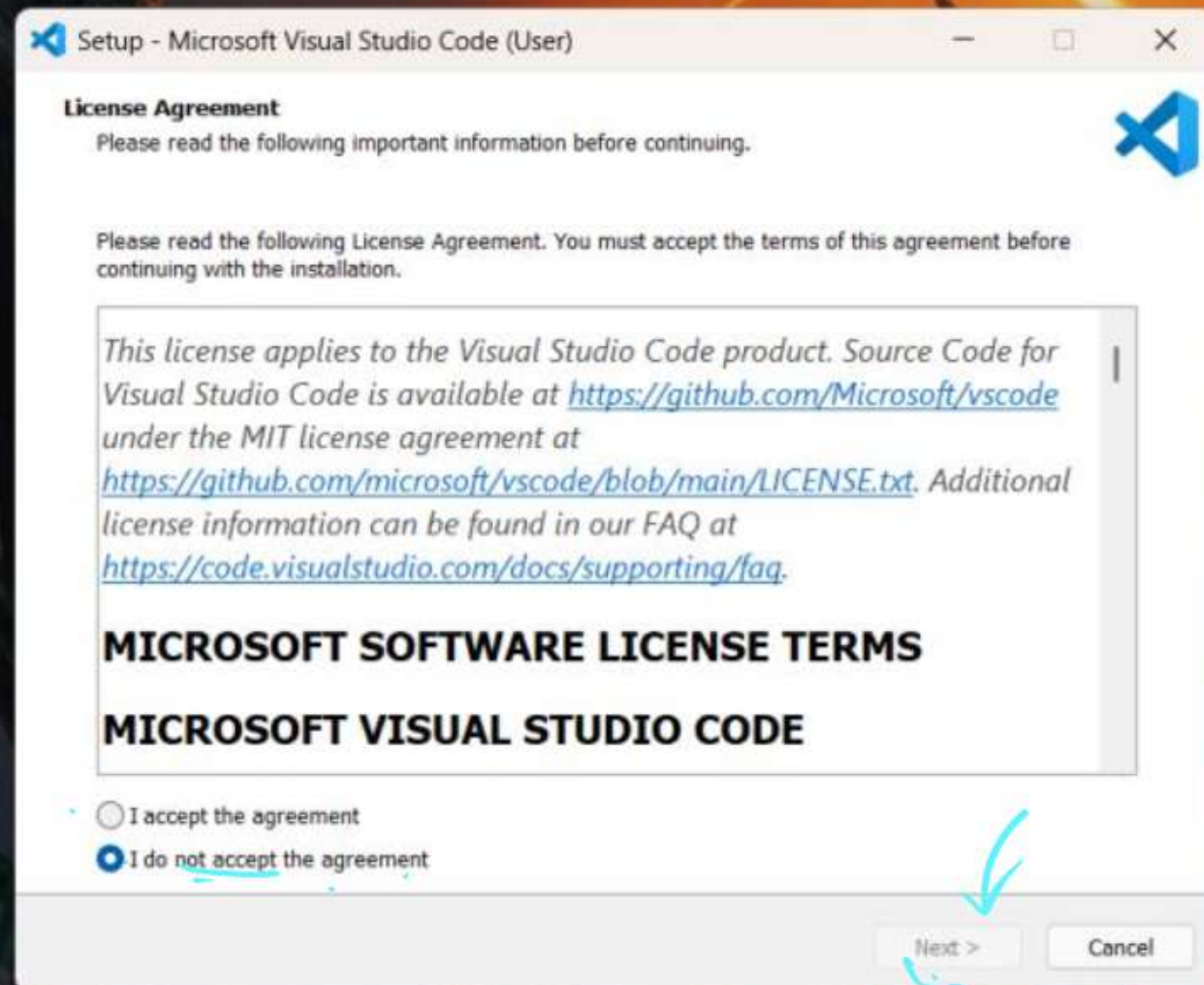


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Setup - Microsoft Visual Studio Code (User)

Select Additional Tasks

Which additional tasks should be performed?

Select the additional tasks you would like Setup to perform while installing Visual Studio Code, then click Next.

Additional icons:

☒ Create a desktop icon

Other:

- ☒ Add "Open with Code" action to Windows Explorer file context menu
- ☒ Add "Open with Code" action to Windows Explorer directory context menu
- ☒ Register Code as an editor for supported file types
- ☒ Add to PATH (requires shell restart)

100%
Fin

< Back Next > Cancel

Benefits of Installing Software

"सॉफ्टवेयर इंस्टालेशन से आप अपने दैनिक कार्यों को बहुत आसान बना सकते हैं।

🎯 Efficiency (दक्षता): ✓

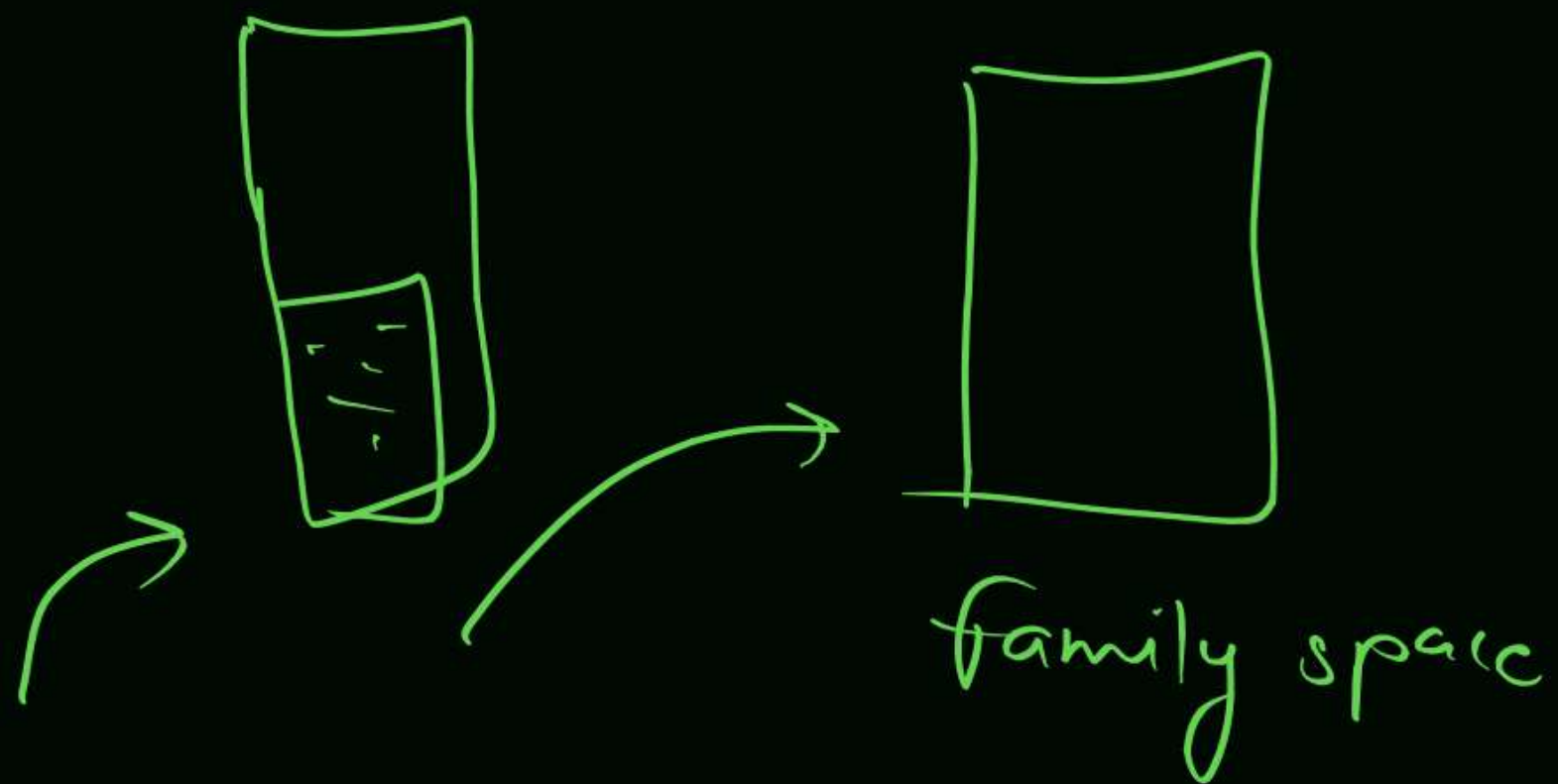
सॉफ्टवेयर टूल्स आपके काम को तेज़ और कुशल बनाते हैं। जैसे माइक्रोसॉफ्ट ऑफिस से आप तुरंत डॉक्यूमेंट, प्रेजेंटेशन और स्प्रेडशीट बना सकते हैं।

🎯 Productivity (उत्पादकता):

आप अपनी productivity में भी सुधार कर सकते हैं, जैसे project management tools (Trello, Asana) install करें।

🎯 Entertainment and Creativity (मनोरंजन और रचनात्मकता):

सॉफ्टवेयर आपको Entertainment और Creativity का भी मौका देता है, जैसे Adobe Photoshop या Spotify के लिए इंस्टालेशन।



3. VIRTUALIZATION SOFTWARE

Virtualization software एक वर्चुअल वातावरण (virtual environment) बनाता है, जिसमें आप एक कंप्यूटर के अंदर दूसरा OS install करके चला सकते हैं

Examples:

- VMware Workstation ✓
- Oracle VirtualBox ✓
- Microsoft Hyper-V ✓

Example Explanation:

अगर आपके सिस्टम में Windows 11 installed है, और आपको Linux पर भी काम करना है, बिना system format के, तो आप VirtualBox में Linux install करके use कर सकते हैं।