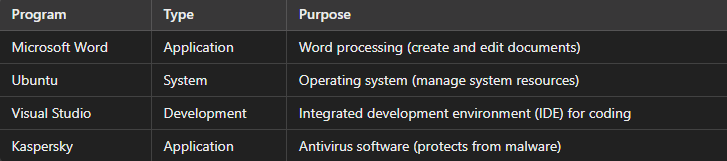
1. **Task 1: Software Classification**
   * Receive a list of programs and determine which type they belong to (System, Application, Development). Example list:
     + Microsoft Word
     + Ubuntu
     + Visual Studio
     + Kaspersky
   * Record your answers in a table indicating type and purpose.



1. **Task 2: Working with Different File Formats**
   * Examine a folder containing files with formats: .exe, .zip, .iso, .py.

**.exe**: Run or install the software.

**.zip**: Extract the files and then inspect what’s inside.

**.iso**: Mount or burn the disk image to access its contents.

**.py**: Run the Python script using Python.

* + Identify the software type and its purpose.

### **1. .exe (Executable File)**

* **Software Type**: Executable Program
* **Purpose**: An .exe file is typically used to launch or install software on a Windows operating system. It is the file type used by most applications for installation and execution on Windows. These files can contain installers or standalone programs that perform specific tasks, such as games, utilities, or system programs.

**Example Purpose**: Installing a software application like a web browser, or running a utility like a file compressor.

### **2. .zip (Compressed Archive File)**

* **Software Type**: Archive/Compression Format
* **Purpose**: A .zip file is a compressed archive that groups multiple files and folders into one single file for easier storage, transport, or sharing. It reduces the file size by compressing content and makes it more convenient to send multiple files together.

**Example Purpose**: Packaging a set of files (e.g., images, documents) into a single compressed file for emailing or downloading.

### **3. .iso (Disk Image File)**

* **Software Type**: Disk Image Format
* **Purpose**: A .iso file is a disk image, a sector-by-sector copy of the contents of a CD, DVD, or Blu-ray disc. It contains everything from system files to user data, making it a virtual copy of the original disk. .iso files are commonly used for distributing software, operating systems, or large sets of files in a format that can be burned onto a physical disk or mounted as a virtual drive.

**Example Purpose**: Distributing an operating system (like a Linux distro), or software that needs to be installed from a CD or DVD.

### **4. .py (Python Script File)**

* **Software Type**: Script/Programming File
* **Purpose**: A .py file is a Python script. Python is a high-level programming language, and .py files contain Python code that can automate tasks, perform calculations, manipulate data, or create applications. These files are executed by a Python interpreter.

**Example Purpose**: Writing automation scripts for tasks like web scraping, creating a data processing tool, or developing a simple game.

1. **Task 3: Mini-Project**
   * Classify several software products and explain why they belong to a particular type.

### **1. Spotify**

* **Type**: **Media Player / Streaming Service**
* **Explanation**: Spotify is a music streaming service that allows users to listen to music online. It belongs to the **media player and streaming service** category because its primary function is to provide access to music via the internet in real-time (streaming). Users can listen to songs, albums, and playlists without needing to download them to their devices.

### **2. AutoCAD**

* **Type**: **CAD Software (Computer-Aided Design)**
* **Explanation**: AutoCAD is a software used for drafting and designing, mainly by architects, engineers, and designers. It falls into the **CAD software** category because it is specifically designed for creating 2D and 3D drawings, models, and architectural plans, as well as performing technical calculations.

### **3. WhatsApp**

* **Type**: **Messaging Mobile Application**
* **Explanation**: WhatsApp is a messaging application that allows text messaging, voice calls, and video calls, used primarily on mobile devices. It belongs to the **mobile messaging app** category because its primary purpose is communication through text messages, media files, and calls over the internet.

### **4. GitHub**

* **Type**: **Code Hosting Platform / Version Control System**
* **Explanation**: GitHub is a platform for collaborative software development that uses the Git version control system. It belongs to the **code hosting platform** and **version control system** category because it provides developers with tools for storing, managing, and collaborating on code, as well as tracking changes and fixes.

### **5. Blender**

* **Type**: **3D Modeling and Animation Software**
* **Explanation**: Blender is a free software used for creating 3D graphics, animations, visual effects, and models. It belongs to the **3D modeling and animation software** category because it is designed for creating and editing three-dimensional objects, as well as animating and rendering them.

### **6. Skype**

* **Type**: **Video Calling and Messaging Software**
* **Explanation**: Skype is a widely used program for video calls, voice calls, and text messaging. It falls into the **video calling and messaging** category because its primary function is real-time communication via the internet, including voice and video calls, as well as chat.

### **7. Steam**

* **Type**: **Digital Game Distribution Platform**
* **Explanation**: Steam is a digital platform for purchasing, downloading, and managing video games. It is classified as a **digital game distribution platform** because its main goal is to provide users with access to games, updates, and additional content via the internet, as well as support for multiplayer gaming and social features.

### **8. Dropbox**

* **Type**: **Cloud Storage / File Syncing Service**
* **Explanation**: Dropbox is a cloud storage service that allows users to store and sync files across different devices. It belongs to the **cloud storage** category because its primary function is to store data online, provide access to it from various devices, and automatically sync files.

### **9. Docker**

* **Type**: **Containerization Platform**
* **Explanation**: Docker is a tool for automating the deployment, scaling, and management of applications using containers. It is classified as a **containerization platform** because it enables the creation and management of containers—isolated environments that simplify application deployment and management.

### **10. Notepad++**

* **Type**: **Text Editor**
* **Explanation**: Notepad++ is a text editor that supports syntax highlighting and is commonly used for editing code and plain text files. It belongs to the **text editor** category because its primary function is to edit simple text files as well as source code in various programming languages.