Program 1

An IDE, or Integrated Development Environment, enables programmers to consolidate the different aspects of writing a computer program.

IDEs increase programmer productivity by combining common activities of writing software into a single application: editing source code, building executables, and debugging.

**Some Types of IDE:**

1.IDLE

2.Thonny

**Comparison Between IDLE and Thonny:**

**IDLE**, the Integrated Development Environment or IDE that ships with Python is OK but there are better alternatives out there. Before you start, you obviously have to have **Python**installed. The Python environment is available from the [Python website](https://www.python.org/); you can download the latest version for your operating system from the downloads button near the top. When you are installing Python, it is a good idea to add the python executable to the **system path variable** to make it easier to use python on your machine.

The first alternative IDE is a simple extension manager for IDLE called **IDLEX**. You can download IDLEX from the [IDLEX website](http://idlex.sourceforge.net/). It looks very similar to IDLE except that it has an extensions manager and, most importantly, allows you to **clear the console** - amazing!

The second alternative you can use is **Thonny**. Thonny is built for education and you can download the latest version from the [Thonny website](https://thonny.org/" \t "_blank). The download options are at the top right. Thonny looks quite different to IDLE - it has different panels for the **editor**, the **shell** and the **variables**watcher plus (show view) lots of other options as well. It has a powerful debugger built in and other tools which let you manage **packages** and **plugins**