**Computer Science Terms:**

**Acronyms of Importance:**

**IDE**- Integrated Development Environment: is a software application that provides comprehensive set of tools for computer programmers to develop software.

Ex. Visual Studio, Android Studio, X Code.

**SDK**- Software Development Kit: is typically a set of software development tools that allows the creation of applications for a certain software package, software framework, hardware platform, computer system, video game console, operating system, or similar development platform.

Ex. Android SDK, JDK (Java)

**API** – Application Programming Interface: is a set of subroutine definitions, protocols, and tools for building application software. In general terms, it's a set of clearly defined methods of communication between various software components. A good API makes it easier to develop a computer program by providing all the building blocks, which are then put together by the programmer.

Ex. .NET Framework, WPI Libraries.

**UI** – User Interface- in the industrial design field of human–computer interaction, is the space where interactions between humans and machines occur. The goal of this interaction is to allow effective operation and control of the machine from the human end, whilst the machine simultaneously feeds back information that aids the operators' decision-making process

Ex. Command Prompt, button and a screen, any example below.

**GUI** – Graphical User Interface- is a type of user interface that allows users to interact with electronic devices through graphical icons and visual indicators such as secondary notation, instead of text-based user interfaces, typed command labels or text navigation.

Ex. Smartphone software and PC software buttons and text etc.

**Components of an IDE:**

**Editor** – Where you write your code.

Ex. Notepad, Notepad++, Text Wrangler etc.

**Compiler** – Turns your code into a machine executable format.

**Publisher** – Publishes code into an executable file type.

**Simulator** – Simulates the computer system that your executable should run on.

Ex. Android or iPhone emulators.

**Debugger** – Helps identify problems in code. Usually works in unison with the simulator.