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Introduction To IDE

What is IDE

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- An integrated development environment (IDE) is a software application that helps programmers develop software code efficiently.
- It increases developer productivity by combining capabilities such as software editing, building, testing, and packaging in an easy-to-use application.
- An IDE typically consists of:
- **Source code editor**: A text editor that can assist in writing software code with features such as syntax highlighting with visual cues, providing language specific auto-completion, and checking for bugs as code is being written.
- **Local build automation**: Utilities that automate simple, repeatable tasks as part of creating a local build of the software for use by the developer, like compiling computer source code into binary code, packaging binary code, and running automated tests.
- **Debugger**: A program for testing other programs that can graphically display the location of a bug in the original code.

Google Collab

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- Colab is a free Jupyter notebook environment that runs entirely in the cloud.
- it does not require a setup and the notebooks that you create can be simultaneously edited by your team members - just the way you edit documents in Google Docs.
- Colab supports many popular machine learning / data analytics libraries which can be easily loaded in your notebook.
- Google collab can be access via link

Visual Studio Code Editor

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- Visual Studio Code is a code editor redefined and optimized for building and debugging modern web and cloud applications.
- Visual Studio Code provides seamless integration with python, java , perl and other programming language
- Visual Studio Code can be downloaded via link