Challenges Faced:

1. **Installation Issues**: Encountered problems during the installation of some tools due to system compatibility or missing dependencies.
2. **Version Control Conflicts**: Issues while pushing changes to GitHub due to out-of-sync local and remote repositories.
3. **Configuration Errors**: Incorrect configurations in. gitignore or IDE settings that led to unexpected behavior.

Strategies Employed:

1. **Research and Documentation**: Referred to official documentation and online forums to resolve installation issues.
2. **Version Control Commands**: Used Git commands like git fetch, git merge, and git push -f to manage and resolve conflicts.
3. **Testing and Verification**: Regularly tested the setup by running sample code and verifying configurations to ensure everything worked as expected.