COMSATS University Islamabad

**Topics in Software Engineering**

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**Course Title:** Topics in Software Engineering

**Section:** A

**Assessment:** Assignment 2

**Submitted To:** Mam Fatima Sabir

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**Campus:** Lahore Campus

**Topic: Visual Studio and VS Code**

**PART A**

1. **Refactoring Strategies:**
   * They extract methods so that it can helps in developing new system.
   * They also use naming conventions to rename the variables and functions names so that readability improves.
   * They also remove the commented code that seems like a zombie.
   * They also do encapsulation so that data integrity improves.

**PART B**

1. **How They Apply Re-Write:**
   * They apply the "IQuid pro quo rewrite" because every new version have so new major functionality or features.

**PART C**

1. **Old Features:**
   * It hides/shows the tool bar actions, which means the customization of the tool bar.
   * It allows you to try out color themes without installing them.
   * It assists in instantly filing in the interface and override methods.
   * There are more additions in the extensions for [vscode.dev](http://vscode.dev/)
2. **New Features:**
   * With a solid extensibility model, nearly 10,000 extensions have been written.
   * In the last few updates, VS Code makes easier to  prototype and create software.
   * It quickly reverts or reapplies the merge conflict actions.
3. **Recent Changes of Different Versions:**
   * The recent versions has allowed the easier transitions between text and merge editors.
   * An instant code action
   * Detects the broken links to images, headers, and files.
4. **Current State:**
   * Helps you in deciding which files scroll into the view in the Explorer tab.
   * Supports adev container GPU support which means it sends a request to the GPU.
   * Simplifies the user interface of the editor by toggling the state badges.