

**CS-368**

**Section: A**

**Software Re-Engineering**

**Group Members**

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**Assignment No.1**

**Refactoring in PhpStorm**

# **Code refactoring﻿**

Refactoring is a process of improving your source code without creating a new functionality. Refactoring helps you keep your code solid , [dry](https://en.wikipedia.org/wiki/Don%27t_repeat_yourself), and easy to maintain.

## **Invoke refactoring**

* Select an item to refactor. You can select a file/folder in the Project tool window or expression/symbol in the editor.
* Press **Ctrl+Alt+Shift+T** to open a list of refactorings that can be selected.
* Alternatively, you can use a keyboard shortcut for a specific refactoring.
* If you need to undo your refactoring, press **Ctrl+Z.**

## **Preview refactoring changes**

For some refactorings, PhpStorm lets you preview changes before applying them.

* To see potential changes (the list of usages where the refactoring will be performed), click **Preview** in the **Refactoring Preview dialog**.
* Check the changes that are going to be made in the Find tool window. You can exclude Delete or remove **Ctrl+X** changes that you consider unnecessary.
* Click **Do Refactor** to proceed with the changes.

## **Resolve conflicts**

When PhpStorm encounters problems with your refactoring, it opens a dialog with the list of conflicts and their brief descriptions.

* Click **Continue to ignore the problem** and proceed to **open the preview** in the **Find tool window.**
* Click **Show Conflicts** in View to open the conflict entries in the Find tool window and deal with them further.  
  For example, you can try to exclude an entry from refactoring by pressing Delete or click **Cancel** and **return to the editor.**

## **Configure refactoring settings**

* In the Settings/Preferences dialog **(Ctrl+Alt+S)**, select Editor | Code Editing.
* On the Code Editing page, in the Refactorings section, adjust the refactoring options and click **OK**

## **The popular refactorings supported in PhpStorm**

| **Name** | **Buttons** | **Descrription** |
| --- | --- | --- |
| Safe Delete | Alt+Delete | Makes sure that you do not delete files that are referenced in your source code. |
| Move File | F6 | Moves an element. |
| Copy File | F5 | Copies an element. |
| Rename File | Shift+F6 | Renames an element |