**REFACTOR assignment\_participant.rb**

The following were the tasks performed as part of this project:

1) In this project we have a defined a new module called "Artifact".

The Artifact module holds all information regarding submission and retrieval of files and hyperlinks

The Artifact module is located under the lib folder.

The Artifact module contains the following methods after refactoring:

a) submit\_hyperlink()

b) get\_submitted\_files()

c) submitted\_hyperlinks=()

d) get\_hyperlinks

e) get\_hyperlinks\_array

f) get\_files()

2) Refactor the methods get\_scores() to get\_scores\_given() and get\_topic\_string() to get\_topic\_name(), in order to maintain the code conventions and avoid discrepnancies.

3) Modify the access of submitted\_hyperlink() and submitted\_file() methods to public and check if it causes any discrepnancies.

Test cases:

Since we defined a module and included this module in the assignment\_participant we do not need to specify any new test cases , since there are no new functionality is defined.

However since the methods are now called in a different way now , it is required to ensure that all the test cases are passed from the model.

For e.g: The model assignment\_participant.rb does not contain any methods pertaining to submit\_hyperlink.

However it is required that all the test cases pass, since the module Artifact is included in the model as a mixin.

This is checked.

In order to verify that the module is being mixed into the class we can remove the "include Artifact" statement from the asssignment\_participant.rb class.

In this case, the following cases fail:

a) test\_reject\_empty\_hyperlink

b) test\_reject\_remove\_hyperlink

c) test\_remove\_one\_hyperlink

d) test\_remove\_second\_hyperlink

e) test\_submit\_first\_hyperlink

f) test\_submit\_third\_hyperlink

The rest of the testcases i.e test\_import, test\_publishing\_rights, test\_publishing\_rights\_negative\_tests and regenerate\_keys must pass.