# **IT314 Software Engineering**

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**Lab:** - 5

## Static Analysis

## GitHub Repo link: -

https://github.com/UltiRequiem/pythonprojects-for-intermediates/tree/main/librarymanagement-system

Tool: - pylint

#### README.md

```
PS C:\Users\vedan\Downloads\python-projects-for-intermediates-main\python-projects-for-intermediates-main\library-management-syst
em> py -m pylint README.md
************ Module README
README.md:3:13: E0001: Parsing failed: 'invalid syntax (<unknown>, line 3)' (syntax-error)
```

#### Main.py

```
No module named 'pymysql'
nloads\python-projects-for-intermediates-main\python-projects-for-intermediates-main\library-management-system> py -m pylint main.py
main.py:50:0: W0614: Unused import(s) cur, bookRegister, bookTable, bookInfo1, bookInfo2, bookInfo3 and bookInfo4 from wildcard import of AddBook (unused-wildcard-
ampon (y).
main.py.6:0: W0614: Unused import(s) issueTable and deleteBook from wildcard import of DeleteBook (unused-wildcard-import)
main.py.8:0: W0614: Unused import(s) allBid, issue, status, labelFrame, lb1, inf1, inf2, issueBtn and quitBtn from wildcard import of IssueBook (unused-wildcard-i
main.py:9:0: W0614: Unused import(s) returnn and SubmitBtn from wildcard import of ReturnBook (unused-wildcard-import)
```

#### AddBook.py

```
AddBook.py:1:8: C8114: Missing module docstring (missing-module-docstring)

AddBook.py:1:8: C8118: Module name "AddBook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:1:8: Module name "AddBook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:1:8: Module name "AddBook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:1:8: Module name "insertBook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:1:8: Module name "insertBook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:1:8: Module name "addBook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:1:8: Module name "addBook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:4:8: Module name "addBook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:4:8: Module name "addBook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:4:8: Module name "addBook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:4:8: Module name "addBook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:4:4: Module name "addBook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:4:8: Module name "addIook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:4:4: Module name "addIook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:4:4: Module name "addIook" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:4:4: Module name "headingframe" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:4:4: Module name "headingframe" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:1:4: C018: Variable name "headingframe" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:1:4: C018: Variable name "beadingframe" doesn't conform to snake_case naming style (invalid-name)

AddBook.py:1:4: C018: Variable name "beadingframe" doesn't conform to snake_ca
              Your code has been rated at 5.08/10
```

DeleteBook.py

```
DeleteBook.py:16:8: G8183: Constant name "issueTable" doesn't conform to UPPER_CASE naming style (invalid-name)
DeleteBook.py:20:8: C0116: Missing function or method docstring (missing-function-docstring)
DeleteBook.py:20:8: C0116: Missing function or method docstring (missing-function-docstring)
DeleteBook.py:24:4: C0183: Variable name "deleteBook" doesn't conform to snake_case naming style (invalid-name)
DeleteBook.py:25:4: C0183: Variable name "deleteSol" doesn't conform to snake_case naming style (invalid-name)
DeleteBook.py:25:4: (08183: Variable name "deleteSol" doesn't conform to snake_case naming style (invalid-name)
DeleteBook.py:416: C0183: Variable name "deleteSol" doesn't conform to snake_case naming style (invalid-name)
DeleteBook.py:45:4: (08183: Variable name "deleteSol" doesn't conform to snake_case naming style (invalid-name)
DeleteBook.py:45:4: (08183: Variable name "deleteSol" doesn't conform to snake_case naming style (invalid-name)
DeleteBook.py:45:4: (08183: Variable name "deleteSol" doesn't conform to snake_case naming style (invalid-name)
DeleteBook.py:64:4: (08183: Variable name "deleteSol" doesn't conform to snake_case naming style (invalid-name)
DeleteBook.py:64:4: (08183: Variable name "deleteSol" doesn't conform to snake_case naming style (invalid-name)
DeleteBook.py:64:4: (08183: Variable name "deleteSol" doesn't conform to snake_case naming style (invalid-name)
DeleteBook.py:64:4: (0861: Using global for bookInfo2' but no assignment is done (global-variable-not-assigned)
DeleteBook.py:64:4: (08682: Using global for 'bookInfo3' but no assignment is done (global-variable-not-assigned)
DeleteBook.py:64:4: (08682: Using global for 'con' but no assignment is done (global-variable-not-assigned)
DeleteBook.py:64:4: (08682: Using global for 'con' but no assignment is done (global-variable-not-assigned)
DeleteBook.py:64:4: (08682: Using global for 'con' but no assignment is done (global-variable-not-assigned)
DeleteBook.py:64:4: (08682: Using global for 'con' but no assignment is done (glo
```

### Pylint output message types

Convention(C)

It is displayed when the program is not following the standard rules.

Refactor(R)

It is displayed for bad code smell.

Warning(W)

It is displayed when that line execution results some error.

• Error(E)

It is displayed when that particular line execution results some error.

Fatal(F)

It is displayed when pylint has no access to further process that line.

#### Issues

- 1) README.md:3:13: E0001: Parsing failed: 'invalid syntax (<unknown>, line 3)' (syntax-error)
- Used when a syntax error is raised for a module
- 2) main.py:1:0: C0114: Missing module docstring (missing-module-docstring)
- Used when a module has no docstring. Empty modules do not require a docstring.
- 3) main.py:1:0: W0401: Wildcard import tkinter (wildcard-import)
- Used when `from module import \*` is detected.
- 4) main.py:3:0: E0401: Unable to import 'pymysql'
- Used when pylint has been unable to import a module.
- 5) main.py:12:0: C0103: Constant name "mypass" doesn't conform to UPPER\_CASE naming style (invalid name)
- Used when the name doesn't conform to naming rules associated to its type (constant, variable, class...).
- 6) main.py:12:0:E1101: Class 'Image' has no 'ANTIALIAS' member (no-member)
- Used when a variable is accessed for an inexistent member.
- 7) main.py:1:0: W0614: Unused import(s)
- Used when an imported module or variable is not used from a `'from X import \*'`
  style import.
- 8) AddBook.py:1:0: C0103: Module name "Add Book" doesn't conform to snake case naming style (invalid-name)
- Used when the name doesn't conform to naming rules associated to its type (constant, variable, class...).
- 9) AddBook.py:1:0: W0702: No exception type(s) specified (bare-except)
- Used to catch all exceptions that signal program errors.
- 10) AddBook.py:45:4: W0601: Global variable 'bookInfo1' undefined at the module level (global-variable-undefined)
- Used when a variable is defined through the "global" statement but the variable is not defined in the module scope

- 11) DeleteBook.py:20:0: C0116: Missing function or method docstring (missing-function-docstring)
- Used when a function or method has no docstring. Some special methods like \_\_init\_\_ do not require a docstring.
- 12) DeleteBook.py:88:62: E0602: Undefined variable 'white' (undefined-variable)
- Used when an undefined variable is accessed.