

Lab5 : IT-314
ID : 202001148
GROUP-13

Static Analysis:

Static analysis is a method of examining the source code of a software program without executing it. Static analysis can help detect errors, bugs, vulnerabilities, and other quality issues in the code. Static analysis tools can perform various tasks such as checking syntax, style, logic, data flow, control flow, and security. Static analysis can improve the reliability, performance, and maintainability of software by identifying and correcting defects early in the development process.

Static analysis tool : pylint

File: database.py

<https://github.com/samewise1367/Python-Student-Registration/blob/master/database.py>

```
B:\1st\lab5>py -m pylint database.py
*****
Module database
database.py:5:0: W0311: Bad indentation. Found 16 spaces, expected 8 (bad-indentation)
database.py:6:0: W0311: Bad indentation. Found 16 spaces, expected 8 (bad-indentation)
database.py:10:0: C0303: Trailing whitespace (trailing-whitespace)
database.py:11:131: C0303: Trailing whitespace (trailing-whitespace)
database.py:11:0: C0301: Line too long (131/100) (line-too-long)
database.py:22:0: C0303: Trailing whitespace (trailing-whitespace)
database.py:24:0: C0301: Line too long (122/100) (line-too-long)
database.py:32:0: C0303: Trailing whitespace (trailing-whitespace)
database.py:33:0: C0325: Unnecessary parens after 'if' keyword (superfluous-parens)
database.py:36:0: C0303: Trailing whitespace (trailing-whitespace)
database.py:39:0: C0304: Final newline missing (missing-final-newline)
database.py:1:0: C0114: Missing module docstring (missing-module-docstring)
database.py:3:0: C0115: Missing class docstring (missing-class-docstring)
database.py:8:4: C0116: Missing function or method docstring (missing-function-docstring)
database.py:8:4: C0103: Method name "createTable" doesn't conform to snake_case naming style (invalid-name)
database.py:14:4: C0116: Missing function or method docstring (missing-function-docstring)
database.py:14:4: C0103: Method name "insertTable" doesn't conform to snake_case naming style (invalid-name)
database.py:23:4: C0116: Missing function or method docstring (missing-function-docstring)
database.py:23:4: C0103: Method name "loginCheck" doesn't conform to snake_case naming style (invalid-name)
database.py:33:8: R1705: Unnecessary "else" after "return", remove the "else" and de-indent the code inside it (no-else-return)

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Your code has been rated at 2.86/10
```

This code has been rated 2.86/10

File : Home.py

<https://github.com/samdwise1367/Python-Student-Registration/blob/master/home.py>

```
home.py:4:4: C0116: Missing function or method docstring (missing-function-docstring)
home.py:4:4: C0103: Method name "setupUi" doesn't conform to snake_case naming style (invalid-name)
home.py:4:22: C0103: Argument name "MainWindow" doesn't conform to snake_case naming style (invalid-name)
home.py:4:22: W0621: Redefining name 'MainWindow' from outer scope (line 53) (redefined-outer-name)
home.py:44:4: C0116: Missing function or method docstring (missing-function-docstring)
home.py:44:4: C0103: Method name "retranslateUi" doesn't conform to snake_case naming style (invalid-name)
home.py:44:28: C0103: Argument name "MainWindow" doesn't conform to snake_case naming style (invalid-name)
home.py:44:28: W0621: Redefining name 'MainWindow' from outer scope (line 53) (redefined-outer-name)
home.py:28:8: W0201: Attribute 'centralwidget' defined outside __init__ (attribute-defined-outside-init)
home.py:30:8: W0201: Attribute 'label' defined outside __init__ (attribute-defined-outside-init)
home.py:33:8: W0201: Attribute 'calendarWidget' defined outside __init__ (attribute-defined-outside-init)
home.py:37:8: W0201: Attribute 'statusbar' defined outside __init__ (attribute-defined-outside-init)
home.py:1:0: W0611: Unused QtGui imported from PyQt5 (unused-import)
```

Your code has been rated at 2.19/10 (previous run: 2.19/10, +0.00)

B:\1st\lab5>

This code has been rated 2.19/10

File : Login.py

<https://github.com/samdwise1367/Python-Student-Registration/blob/master/login.py>

```
login.py:51:8: C0103: Attribute name "btnLogin" doesn't conform to snake_case naming style (invalid-name)
login.py:57:8: C0103: Attribute name "btnSignup" doesn't conform to snake_case naming style (invalid-name)
login.py:63:8: C0103: Attribute name "label_Heading" doesn't conform to snake_case naming style (invalid-name)
login.py:81:8: C0103: Attribute name "homWindow" doesn't conform to snake_case naming style (invalid-name)
login.py:82:8: C0103: Attribute name "ui" doesn't conform to snake_case naming style (invalid-name)
login.py:108:8: C0103: Attribute name "signDialog" doesn't conform to snake_case naming style (invalid-name)
login.py:7:0: R0205: Class 'Ui_Dialog2' inherits from object, can be safely removed from bases in python3 (useless-object-inheritance)
login.py:7:0: R0902: Too many instance attributes (10/7) (too-many-instance-attributes)
login.py:8:4: C0116: Missing function or method docstring (missing-function-docstring)
login.py:8:4: C0103: Method name "setupUi" doesn't conform to snake_case naming style (invalid-name)
login.py:8:22: C0103: Argument name "Dialog" doesn't conform to snake_case naming style (invalid-name)
login.py:8:22: W0621: Redefining name 'Dialog' from outer scope (line 122) (redefined-outer-name)
login.py:7:4: C0116: Missing function or method docstring (missing-function-docstring)
login.py:71:4: C0103: Method name "retranslateUi" doesn't conform to snake_case naming style (invalid-name)
login.py:71:28: C0103: Argument name "Dialog" doesn't conform to snake_case naming style (invalid-name)
login.py:71:28: W0621: Redefining name 'Dialog' from outer scope (line 122) (redefined-outer-name)
login.py:80:4: C0116: Missing function or method docstring (missing-function-docstring)
login.py:80:4: C0103: Method name "welcomePage" doesn't conform to snake_case naming style (invalid-name)
login.py:86:4: C0116: Missing function or method docstring (missing-function-docstring)
login.py:86:4: C0103: Method name "loginCheck" doesn't conform to snake_case naming style (invalid-name)
login.py:89:8: C0103: Variable name "getdb" doesn't conform to snake_case naming style (invalid-name)
login.py:99:4: C0116: Missing function or method docstring (missing-function-docstring)
login.py:99:4: C0103: Method name "showMessage" doesn't conform to snake_case naming style (invalid-name)
login.py:100:8: C0103: Variable name "msgBox" doesn't conform to snake_case naming style (invalid-name)
login.py:99:25: W0613: Unused argument 'title' (unused-argument)
login.py:107:4: C0116: Missing function or method docstring (missing-function-docstring)
login.py:107:4: C0103: Method name "signupButton" doesn't conform to snake_case naming style (invalid-name)
login.py:113:4: C0116: Missing function or method docstring (missing-function-docstring)
login.py:113:4: C0103: Method name "clearField" doesn't conform to snake_case naming style (invalid-name)
login.py:36:8: W0201: Attribute 'label' defined outside __init__ (attribute-defined-outside-init)
login.py:39:8: W0201: Attribute 'label_2' defined outside __init__ (attribute-defined-outside-init)
login.py:42:8: W0201: Attribute 'txtUsername' defined outside __init__ (attribute-defined-outside-init)
login.py:45:8: W0201: Attribute 'txtPassword' defined outside __init__ (attribute-defined-outside-init)
login.py:51:8: W0201: Attribute 'btnLogin' defined outside __init__ (attribute-defined-outside-init)
login.py:57:8: W0201: Attribute 'btnSignup' defined outside __init__ (attribute-defined-outside-init)
login.py:63:8: W0201: Attribute 'label_Heading' defined outside __init__ (attribute-defined-outside-init)
login.py:81:8: W0201: Attribute 'homWindow' defined outside __init__ (attribute-defined-outside-init)
login.py:82:8: W0201: Attribute 'ui' defined outside __init__ (attribute-defined-outside-init)
login.py:109:8: W0201: Attribute 'ui' defined outside __init__ (attribute-defined-outside-init)
login.py:108:8: W0201: Attribute 'signDialog' defined outside __init__ (attribute-defined-outside-init)
login.py:1:0: W0611: Unused QtGui imported from PyQt5 (unused-import)
```

Your code has been rated at 2.10/10 (previous run: 2.10/10, +0.00)

This code has been rated 2.10/10

File : Signup.py

<https://github.com/samdwise1367/Python-Student-Registration/blob/master/signup.py>

```
B:\1st\lab5>py -m pylint signup.py
*****
Module: signup
signup.py:11:0: C0301: Line too long (179/100) (line-too-long)
signup.py:30:0: C0301: Line too long (198/100) (line-too-long)
signup.py:76:0: C0303: Trailing whitespace (trailing-whitespace)
signup.py:96:0: C0325: Unnecessary parens after 'if' keyword (superfluous-parens)
signup.py:103:0: C0303: Trailing whitespace (trailing-whitespace)
signup.py:121:0: C0303: Trailing whitespace (trailing-whitespace)
signup.py:129:0: C0303: Trailing whitespace (trailing-whitespace)
signup.py:133:0: C0303: Trailing whitespace (trailing-whitespace)
signup.py:154:0: C0304: Final newline missing (missing-final-newline)
signup.py:1:0: C0114: Missing module docstring (missing-module-docstring)
signup.py:1:0: E0401: Unable to import 'PyQt5' (import-error)
signup.py:5:0: C0115: Missing class docstring (missing-class-docstring)
signup.py:5:0: C0103: Class name "Ui_Dialog" doesn't conform to PascalCase naming style (invalid-name)
signup.py:46:8: C0103: Attribute name "txtUsername" doesn't conform to snake_case naming style (invalid-name)
signup.py:49:8: C0103: Attribute name "txtEmail" doesn't conform to snake_case naming style (invalid-name)
signup.py:52:8: C0103: Attribute name "txtPassword" doesn't conform to snake_case naming style (invalid-name)
signup.py:58:8: C0103: Attribute name "txtPassword2" doesn't conform to snake_case naming style (invalid-name)
signup.py:64:8: C0103: Attribute name "btnRegister" doesn't conform to snake_case naming style (invalid-name)
signup.py:70:8: C0103: Attribute name "label_Heading" doesn't conform to snake_case naming style (invalid-name)
signup.py:80:8: C0103: Attribute name "txtName" doesn't conform to snake_case naming style (invalid-name)
signup.py:125:8: C0103: Attribute name "loginWindow" doesn't conform to snake_case naming style (invalid-name)
signup.py:126:8: C0103: Attribute name "ui" doesn't conform to snake_case naming style (invalid-name)
signup.py:5:0: R0205: Class 'Ui_Dialog' inherits from object, can be safely removed from bases in python3 (useless-object-inheritance)
signup.py:5:0: R0902: Too many instance attributes (15/7) (too-many-instance-attributes)
signup.py:6:4: C0116: Missing function or method docstring (missing-function-docstring)
signup.py:43:8: W0201: Attribute 'label_4' defined outside __init__ (attribute-defined-outside-init)
signup.py:46:8: W0201: Attribute 'txtUsername' defined outside __init__ (attribute-defined-outside-init)
signup.py:49:8: W0201: Attribute 'txtEmail' defined outside __init__ (attribute-defined-outside-init)
signup.py:52:8: W0201: Attribute 'txtPassword' defined outside __init__ (attribute-defined-outside-init)
signup.py:58:8: W0201: Attribute 'txtPassword2' defined outside __init__ (attribute-defined-outside-init)
signup.py:64:8: W0201: Attribute 'btnRegister' defined outside __init__ (attribute-defined-outside-init)
signup.py:70:8: W0201: Attribute 'label_Heading' defined outside __init__ (attribute-defined-outside-init)
signup.py:73:8: W0201: Attribute 'label_5' defined outside __init__ (attribute-defined-outside-init)
signup.py:77:8: W0201: Attribute 'label_6' defined outside __init__ (attribute-defined-outside-init)
signup.py:80:8: W0201: Attribute 'txtName' defined outside __init__ (attribute-defined-outside-init)
signup.py:125:8: W0201: Attribute 'loginWindow' defined outside __init__ (attribute-defined-outside-init)
signup.py:126:8: W0201: Attribute 'ui' defined outside __init__ (attribute-defined-outside-init)
signup.py:1:0: W0611: Unused QtGui imported from PyQt5 (unused-import)

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Your code has been rated at 2.95/10
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This code has been rated 2.95/10.