МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ

НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ «ЛЬВІВСЬКА ПОЛІТЕХНІКА»

Кафедра інформаційних систем та мереж

Лабораторна робота №9

з дисципліни

СПЕЦІАЛІЗОВАНІ МОВИ ПРОГРАМУВАННЯ

на тему

СТВОРЕННЯ ТА РЕФАКТОРИНГ ПРОГРАМНО-ІНФОРМАЦІЙНОГО ПРОДУКТУ ЗАСОБАМИ PYTHON

Виконав:

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Прийняв:

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**Мета роботи:**

Розробка програмно-інформаційного продукту засобами Python.

**Хід роботи:**

**Завдання 1.**

Створити скрипт запуску лабораторних робіт 1-8 (Runner) з єдиним меню для управління додатками використовуючи паттерн FACADE.

**Завдання 2.**

Зробити рефакторинг додатків, які були зроблені в лб 1-8, для підтримки можливості запуску через Runner.

**Завдання 3.**

Зробити рефакторинг додатків, які були зроблені в лб 1-8, використовуючи багаторівневу архітектуру додатків та всі принципи об’єктно-орієнтованого підходу.

**Завдання 4.**

Створити бібліотеку класів, які повторно використовуються у всіх лабораторних роботах та зробити рефакторинг додатків для підтримки цієї бібліотеки. Таких класів в бібліотеці має буде як найменш 5.

**Завдання 5.**

Додати логування функцій в класи бібліотеки програмного продукту використовуючи модуль logging.

**Завдання 6.**

Додати коментарі до програмного коду та сформувати документацію програмного продукту засобами pydoc. Документація має бути представлена у вигляді сторінок тексту на консолі, подана у веб-браузері та збережена у файлах HTML.

**Завдання 7.**

Документація та код програмного продукту має бути розміщено в GIT repo.

**Завдання 8.**

Провести статичний аналіз коду продукту засобами PYLINT та виправити помилки, які були ідентифіковані. Первинний репорт з помилками додати до звіту лабораторної роботи.

**Завдання 9.**

Підготувати звіт до лабораторної роботи.

**Первинний репорт з помилками від PYLINT:**

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab1.BLL.functions.calculate

Data\Lab1\BLL\functions\calculate.py:18:0: C0304: Final newline missing (missing-final-newline)

Data\Lab1\BLL\functions\calculate.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab1\BLL\functions\calculate.py:1:0: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab1\BLL\functions\calculate.py:1:0: R0911: Too many return statements (8/6) (too-many-return-statements)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab1.BLL.functions.perform\_calculation

Data\Lab1\BLL\functions\perform\_calculation.py:26:0: C0304: Final newline missing (missing-final-newline)

Data\Lab1\BLL\functions\perform\_calculation.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab1\BLL\functions\perform\_calculation.py:8:0: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab1\BLL\functions\perform\_calculation.py:4:0: C0412: Imports from package Data are not grouped (ungrouped-imports)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab1.UI.classes.console

Data\Lab1\UI\classes\console.py:42:0: C0304: Final newline missing (missing-final-newline)

Data\Lab1\UI\classes\console.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab1\UI\classes\console.py:10:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab1\UI\classes\console.py:15:36: E1101: Super of 'Console' has no '\_\_call\_\_' member (no-member)

Data\Lab1\UI\classes\console.py:15:36: R1725: Consider using Python 3 style super() without arguments (super-with-arguments)

Data\Lab1\UI\classes\console.py:24:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab1\UI\classes\console.py:41:19: W0718: Catching too general exception Exception (broad-exception-caught)

Data\Lab1\UI\classes\console.py:4:0: C0411: standard import "logging" should be placed before first party imports "Data.Shared.classes.history.History", "Data.Lab1.UI.functions.calculator\_settings", "Data.Lab1.BLL.functions.perform\_calculation" (wrong-import-order)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab1.UI.functions.calculator\_result

Data\Lab1\UI\functions\calculator\_result.py:18:0: C0304: Final newline missing (missing-final-newline)

Data\Lab1\UI\functions\calculator\_result.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab1\UI\functions\calculator\_result.py:9:0: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab1\UI\functions\calculator\_result.py:10:4: R1705: Unnecessary "else" after "return", remove the "else" and de-indent the code inside it (no-else-return)

Data\Lab1\UI\functions\calculator\_result.py:3:0: C0411: standard import "logging" should be placed before first party imports "global\_variables", "Data.Lab1.BLL.functions.calculate" (wrong-import-order)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab1.UI.functions.calculator\_settings

Data\Lab1\UI\functions\calculator\_settings.py:6:0: C0301: Line too long (117/100) (line-too-long)

Data\Lab1\UI\functions\calculator\_settings.py:17:0: C0304: Final newline missing (missing-final-newline)

Data\Lab1\UI\functions\calculator\_settings.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab1\UI\functions\calculator\_settings.py:5:0: C0116: Missing function or method docstring (missing-function-docstring)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab1.UI.functions.change\_digits

Data\Lab1\UI\functions\change\_digits.py:17:0: C0304: Final newline missing (missing-final-newline)

Data\Lab1\UI\functions\change\_digits.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab1\UI\functions\change\_digits.py:8:0: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab1\UI\functions\change\_digits.py:12:8: R1723: Unnecessary "else" after "break", remove the "else" and de-indent the code inside it (no-else-break)

Data\Lab1\UI\functions\change\_digits.py:2:0: C0411: standard import "logging" should be placed before first party import "Data.Shared.classes.validators.Validators" (wrong-import-order)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab1.UI.functions.num\_prompt

Data\Lab1\UI\functions\num\_prompt.py:8:0: C0304: Final newline missing (missing-final-newline)

Data\Lab1\UI\functions\num\_prompt.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab1\UI\functions\num\_prompt.py:1:0: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab1\UI\functions\num\_prompt.py:1:0: R1710: Either all return statements in a function should return an expression, or none of them should. (inconsistent-return-statements)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab1.UI.functions.try\_again

Data\Lab1\UI\functions\try\_again.py:6:0: C0301: Line too long (116/100) (line-too-long)

Data\Lab1\UI\functions\try\_again.py:12:0: C0304: Final newline missing (missing-final-newline)

Data\Lab1\UI\functions\try\_again.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab1\UI\functions\try\_again.py:5:0: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab1\UI\functions\try\_again.py:5:0: R1710: Either all return statements in a function should return an expression, or none of them should. (inconsistent-return-statements)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab2.BLL.classes.calculator

Data\Lab2\BLL\classes\calculator.py:31:0: C0304: Final newline missing (missing-final-newline)

Data\Lab2\BLL\classes\calculator.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab2\BLL\classes\calculator.py:4:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab2\BLL\classes\calculator.py:14:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab2\BLL\classes\calculator.py:14:4: R0911: Too many return statements (8/6) (too-many-return-statements)

Data\Lab2\BLL\classes\calculator.py:4:0: R0903: Too few public methods (1/2) (too-few-public-methods)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab2.UI.classes.console

Data\Lab2\UI\classes\console.py:80:0: C0301: Line too long (104/100) (line-too-long)

Data\Lab2\UI\classes\console.py:99:0: C0304: Final newline missing (missing-final-newline)

Data\Lab2\UI\classes\console.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab2\UI\classes\console.py:12:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab2\UI\classes\console.py:17:36: E1101: Super of 'Console' has no '\_\_call\_\_' member (no-member)

Data\Lab2\UI\classes\console.py:17:36: R1725: Consider using Python 3 style super() without arguments (super-with-arguments)

Data\Lab2\UI\classes\console.py:26:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab2\UI\classes\console.py:47:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab2\UI\classes\console.py:47:4: R1710: Either all return statements in a function should return an expression, or none of them should. (inconsistent-return-statements)

Data\Lab2\UI\classes\console.py:79:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab2\UI\classes\console.py:89:20: R1723: Unnecessary "else" after "break", remove the "else" and de-indent the code inside it (no-else-break)

Data\Lab2\UI\classes\console.py:4:0: C0411: standard import "logging" should be placed before first party imports "Data.Lab2.BLL.classes.calculator.Calculator", "Data.Shared.classes.history.History", "Data.Shared.classes.validators.Validators" (wrong-import-order)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab3.BLL.classes.ascii

Data\Lab3\BLL\classes\ascii.py:35:0: C0301: Line too long (110/100) (line-too-long)

Data\Lab3\BLL\classes\ascii.py:36:0: C0304: Final newline missing (missing-final-newline)

Data\Lab3\BLL\classes\ascii.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab3\BLL\classes\ascii.py:5:0: E0401: Unable to import 'pyfiglet' (import-error)

Data\Lab3\BLL\classes\ascii.py:8:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab3\BLL\classes\ascii.py:10:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab3\BLL\classes\ascii.py:22:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab3\BLL\classes\ascii.py:5:0: C0411: third party import "pyfiglet.figlet\_format" should be placed before first party import "global\_variables" (wrong-import-order)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab3.UI.classes.console

Data\Lab3\UI\classes\console.py:67:0: C0301: Line too long (116/100) (line-too-long)

Data\Lab3\UI\classes\console.py:90:0: C0301: Line too long (124/100) (line-too-long)

Data\Lab3\UI\classes\console.py:97:0: C0301: Line too long (115/100) (line-too-long)

Data\Lab3\UI\classes\console.py:103:0: C0301: Line too long (109/100) (line-too-long)

Data\Lab3\UI\classes\console.py:167:0: C0304: Final newline missing (missing-final-newline)

Data\Lab3\UI\classes\console.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab3\UI\classes\console.py:5:0: E0401: Unable to import 'pyfiglet' (import-error)

Data\Lab3\UI\classes\console.py:13:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab3\UI\classes\console.py:18:36: E1101: Super of 'Console' has no '\_\_call\_\_' member (no-member)

Data\Lab3\UI\classes\console.py:18:36: R1725: Consider using Python 3 style super() without arguments (super-with-arguments)

Data\Lab3\UI\classes\console.py:27:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab3\UI\classes\console.py:59:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab3\UI\classes\console.py:70:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab3\UI\classes\console.py:79:12: R1724: Unnecessary "elif" after "continue", remove the leading "el" from "elif" (no-else-continue)

Data\Lab3\UI\classes\console.py:88:24: E0602: Undefined variable 'file\_upload' (undefined-variable)

Data\Lab3\UI\classes\console.py:95:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab3\UI\classes\console.py:111:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab3\UI\classes\console.py:136:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab3\UI\classes\console.py:5:0: C0411: third party import "pyfiglet.FigletFont" should be placed before first party imports "global\_variables", "Data.Lab3.BLL.classes.ascii.Ascii" (wrong-import-order)

Data\Lab3\UI\classes\console.py:7:0: C0411: standard import "logging" should be placed before third party import "pyfiglet.FigletFont" and first party imports "global\_variables", "Data.Lab3.BLL.classes.ascii.Ascii", "Data.Shared.classes.data\_io.DataIO" (wrong-import-order)

Data\Lab3\UI\classes\console.py:6:0: C0412: Imports from package Data are not grouped (ungrouped-imports)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab4.BLL.classes.ascii

Data\Lab4\BLL\classes\ascii.py:8:0: C0301: Line too long (135/100) (line-too-long)

Data\Lab4\BLL\classes\ascii.py:37:0: C0301: Line too long (105/100) (line-too-long)

Data\Lab4\BLL\classes\ascii.py:94:0: C0304: Final newline missing (missing-final-newline)

Data\Lab4\BLL\classes\ascii.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab4\BLL\classes\ascii.py:7:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab4\BLL\classes\ascii.py:7:0: R0902: Too many instance attributes (10/7) (too-many-instance-attributes)

Data\Lab4\BLL\classes\ascii.py:8:4: R0913: Too many arguments (9/5) (too-many-arguments)

Data\Lab4\BLL\classes\ascii.py:8:4: R0917: Too many positional arguments (9/5) (too-many-positional-arguments)

Data\Lab4\BLL\classes\ascii.py:20:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab4\BLL\classes\ascii.py:48:4: R0914: Too many local variables (17/15) (too-many-locals)

Data\Lab4\BLL\classes\ascii.py:86:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

Data\Lab4\BLL\classes\ascii.py:7:0: R0903: Too few public methods (1/2) (too-few-public-methods)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab4.UI.classes.console

Data\Lab4\UI\classes\console.py:42:0: C0301: Line too long (116/100) (line-too-long)

Data\Lab4\UI\classes\console.py:82:0: C0304: Final newline missing (missing-final-newline)

Data\Lab4\UI\classes\console.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab4\UI\classes\console.py:6:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab4\UI\classes\console.py:11:36: E1101: Super of 'Console' has no '\_\_call\_\_' member (no-member)

Data\Lab4\UI\classes\console.py:11:36: R1725: Consider using Python 3 style super() without arguments (super-with-arguments)

Data\Lab4\UI\classes\console.py:33:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab4\UI\classes\console.py:44:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab4\UI\classes\console.py:52:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab4\UI\classes\console.py:62:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab4\UI\classes\console.py:76:4: C0116: Missing function or method docstring (missing-function-docstring)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab5.BLL.classes.cube

Data\Lab5\BLL\classes\cube.py:38:0: C0304: Final newline missing (missing-final-newline)

Data\Lab5\BLL\classes\cube.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab5\BLL\classes\cube.py:4:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab5\BLL\classes\cube.py:13:4: R0914: Too many local variables (19/15) (too-many-locals)

Data\Lab5\BLL\classes\cube.py:28:16: W0612: Unused variable 'j' (unused-variable)

Data\Lab5\BLL\classes\cube.py:30:20: W0612: Unused variable 'k' (unused-variable)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab5.BLL.classes.pyramid

Data\Lab5\BLL\classes\pyramid.py:43:0: C0304: Final newline missing (missing-final-newline)

Data\Lab5\BLL\classes\pyramid.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab5\BLL\classes\pyramid.py:4:0: C0115: Missing class docstring (missing-class-docstring)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab5.BLL.classes.shape

Data\Lab5\BLL\classes\shape.py:69:0: C0304: Final newline missing (missing-final-newline)

Data\Lab5\BLL\classes\shape.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab5\BLL\classes\shape.py:5:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab5\BLL\classes\shape.py:27:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab5\BLL\classes\shape.py:31:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab5\BLL\classes\shape.py:35:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab5\BLL\classes\shape.py:39:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab5\BLL\classes\shape.py:45:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab5\BLL\classes\shape.py:56:16: W0106: Expression "shape.append(empty\_layer) if self.pos\_z > 0 else shape.insert(0, empty\_layer)" is assigned to nothing (expression-not-assigned)

Data\Lab5\BLL\classes\shape.py:62:20: W0106: Expression "shape[i].append(empty\_row) if self.pos\_y > 0 else shape[i].insert(0, empty\_row)" is assigned to nothing (expression-not-assigned)

Data\Lab5\BLL\classes\shape.py:68:24: W0106: Expression "shape[i][j].append(' ') if self.pos\_x < 0 else shape[i][j].insert(0, ' ')" is assigned to nothing (expression-not-assigned)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab5.BLL.classes.sphere

Data\Lab5\BLL\classes\sphere.py:40:0: C0301: Line too long (119/100) (line-too-long)

Data\Lab5\BLL\classes\sphere.py:69:0: C0304: Final newline missing (missing-final-newline)

Data\Lab5\BLL\classes\sphere.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab5\BLL\classes\sphere.py:4:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab5\BLL\classes\sphere.py:23:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab5\BLL\classes\sphere.py:37:4: C0116: Missing function or method docstring (missing-function-docstring)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab5.UI.classes.console

Data\Lab5\UI\classes\console.py:107:0: C0304: Final newline missing (missing-final-newline)

Data\Lab5\UI\classes\console.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab5\UI\classes\console.py:8:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab5\UI\classes\console.py:13:36: E1101: Super of 'Console' has no '\_\_call\_\_' member (no-member)

Data\Lab5\UI\classes\console.py:13:36: R1725: Consider using Python 3 style super() without arguments (super-with-arguments)

Data\Lab5\UI\classes\console.py:36:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab5\UI\classes\console.py:58:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab5\UI\classes\console.py:68:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab5\UI\classes\console.py:90:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab5\UI\classes\console.py:2:0: C0411: standard import "logging" should be placed before first party import "Data.Shared.classes.validators.Validators" (wrong-import-order)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab6.BLL.classes.calculator

Data\Lab6\BLL\classes\calculator.py:40:0: C0304: Final newline missing (missing-final-newline)

Data\Lab6\BLL\classes\calculator.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab6\BLL\classes\calculator.py:5:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab6\BLL\classes\calculator.py:16:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab6\BLL\classes\calculator.py:16:4: R0911: Too many return statements (7/6) (too-many-return-statements)

Data\Lab6\BLL\classes\calculator.py:5:0: R0903: Too few public methods (1/2) (too-few-public-methods)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab6.UI.classes.console

Data\Lab6\UI\classes\console.py:88:0: C0301: Line too long (104/100) (line-too-long)

Data\Lab6\UI\classes\console.py:94:0: C0301: Line too long (117/100) (line-too-long)

Data\Lab6\UI\classes\console.py:105:0: C0304: Final newline missing (missing-final-newline)

Data\Lab6\UI\classes\console.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab6\UI\classes\console.py:13:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab6\UI\classes\console.py:18:36: E1101: Super of 'Console' has no '\_\_call\_\_' member (no-member)

Data\Lab6\UI\classes\console.py:18:36: R1725: Consider using Python 3 style super() without arguments (super-with-arguments)

Data\Lab6\UI\classes\console.py:27:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab6\UI\classes\console.py:54:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab6\UI\classes\console.py:54:4: R1711: Useless return at end of function or method (useless-return)

Data\Lab6\UI\classes\console.py:61:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab6\UI\classes\console.py:61:4: R1710: Either all return statements in a function should return an expression, or none of them should. (inconsistent-return-statements)

Data\Lab6\UI\classes\console.py:87:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab6\UI\classes\console.py:6:0: C0411: standard import "unittest" should be placed before first party imports "Data.Lab6.BLL.classes.calculator.Calculator", "Data.Shared.classes.history.History", "Data.Shared.classes.validators.Validators", "Data.Shared.classes.unit\_test.UnitTest", "global\_variables.MEMORY\_OPERATIONS" (wrong-import-order)

Data\Lab6\UI\classes\console.py:7:0: C0411: standard import "logging" should be placed before first party imports "Data.Lab6.BLL.classes.calculator.Calculator", "Data.Shared.classes.history.History", "Data.Shared.classes.validators.Validators", "Data.Shared.classes.unit\_test.UnitTest", "global\_variables.MEMORY\_OPERATIONS" (wrong-import-order)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab7.BLL.classes.network\_request

Data\Lab7\BLL\classes\network\_request.py:75:0: C0301: Line too long (115/100) (line-too-long)

Data\Lab7\BLL\classes\network\_request.py:79:0: C0325: Unnecessary parens after 'not' keyword (superfluous-parens)

Data\Lab7\BLL\classes\network\_request.py:81:0: C0325: Unnecessary parens after 'not' keyword (superfluous-parens)

Data\Lab7\BLL\classes\network\_request.py:87:0: C0304: Final newline missing (missing-final-newline)

Data\Lab7\BLL\classes\network\_request.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab7\BLL\classes\network\_request.py:3:0: W0401: Wildcard import global\_variables (wildcard-import)

Data\Lab7\BLL\classes\network\_request.py:6:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab7\BLL\classes\network\_request.py:8:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\BLL\classes\network\_request.py:11:12: R1705: Unnecessary "elif" after "return", remove the leading "el" from "elif" (no-else-return)

Data\Lab7\BLL\classes\network\_request.py:8:4: R1710: Either all return statements in a function should return an expression, or none of them should. (inconsistent-return-statements)

Data\Lab7\BLL\classes\network\_request.py:26:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\BLL\classes\network\_request.py:39:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\BLL\classes\network\_request.py:44:12: W0612: Unused variable 'result' (unused-variable)

Data\Lab7\BLL\classes\network\_request.py:53:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\BLL\classes\network\_request.py:58:22: W1309: Using an f-string that does not have any interpolated variables (f-string-without-interpolation)

Data\Lab7\BLL\classes\network\_request.py:63:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\BLL\classes\network\_request.py:3:0: W0614: Unused import(s) os, WIDTH, HEIGHT, FONT, COLOR, COLOR\_RESET, MEMORY\_OPERATIONS, OPERANDS, MEMORY, DIGITS, BASE\_API\_URL, HEADER\_STYLE and ENTITY\_MAP from wildcard import of global\_variables (unused-wildcard-import)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab7.BLL.classes.unit\_of\_work

Data\Lab7\BLL\classes\unit\_of\_work.py:12:0: C0304: Final newline missing (missing-final-newline)

Data\Lab7\BLL\classes\unit\_of\_work.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab7\BLL\classes\unit\_of\_work.py:4:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab7\BLL\classes\unit\_of\_work.py:4:0: R0903: Too few public methods (0/2) (too-few-public-methods)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab7.DAL.classes.api\_repository

Data\Lab7\DAL\classes\api\_repository.py:32:0: C0304: Final newline missing (missing-final-newline)

Data\Lab7\DAL\classes\api\_repository.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab7\DAL\classes\api\_repository.py:5:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab7\DAL\classes\api\_repository.py:10:19: W3101: Missing timeout argument for method 'requests.get' can cause your program to hang indefinitely (missing-timeout)

Data\Lab7\DAL\classes\api\_repository.py:15:19: W3101: Missing timeout argument for method 'requests.get' can cause your program to hang indefinitely (missing-timeout)

Data\Lab7\DAL\classes\api\_repository.py:20:19: W3101: Missing timeout argument for method 'requests.post' can cause your program to hang indefinitely (missing-timeout)

Data\Lab7\DAL\classes\api\_repository.py:25:19: W3101: Missing timeout argument for method 'requests.patch' can cause your program to hang indefinitely (missing-timeout)

Data\Lab7\DAL\classes\api\_repository.py:30:19: W3101: Missing timeout argument for method 'requests.delete' can cause your program to hang indefinitely (missing-timeout)

Data\Lab7\DAL\classes\api\_repository.py:2:0: C0411: third party import "requests" should be placed before first party import "Data.Lab7.DAL.classes.repository.Repository" (wrong-import-order)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab7.DAL.classes.database\_handler

Data\Lab7\DAL\classes\database\_handler.py:51:0: C0301: Line too long (103/100) (line-too-long)

Data\Lab7\DAL\classes\database\_handler.py:56:0: C0304: Final newline missing (missing-final-newline)

Data\Lab7\DAL\classes\database\_handler.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab7\DAL\classes\database\_handler.py:6:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab7\DAL\classes\database\_handler.py:12:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\DAL\classes\database\_handler.py:23:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\DAL\classes\database\_handler.py:30:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\DAL\classes\database\_handler.py:34:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\DAL\classes\database\_handler.py:36:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

Data\Lab7\DAL\classes\database\_handler.py:42:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\DAL\classes\database\_handler.py:44:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

Data\Lab7\DAL\classes\database\_handler.py:49:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\DAL\classes\database\_handler.py:52:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

Data\Lab7\DAL\classes\database\_handler.py:55:4: C0116: Missing function or method docstring (missing-function-docstring)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab7.DAL.classes.repository

Data\Lab7\DAL\classes\repository.py:15:0: C0304: Final newline missing (missing-final-newline)

Data\Lab7\DAL\classes\repository.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab7\DAL\classes\repository.py:1:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab7\DAL\classes\repository.py:2:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\DAL\classes\repository.py:5:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\DAL\classes\repository.py:8:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\DAL\classes\repository.py:11:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\DAL\classes\repository.py:14:4: C0116: Missing function or method docstring (missing-function-docstring)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab7.UI.classes.console

Data\Lab7\UI\classes\console.py:94:0: C0301: Line too long (106/100) (line-too-long)

Data\Lab7\UI\classes\console.py:128:0: C0304: Final newline missing (missing-final-newline)

Data\Lab7\UI\classes\console.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab7\UI\classes\console.py:1:0: W0401: Wildcard import global\_variables (wildcard-import)

Data\Lab7\UI\classes\console.py:13:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab7\UI\classes\console.py:18:36: E1101: Super of 'Console' has no '\_\_call\_\_' member (no-member)

Data\Lab7\UI\classes\console.py:18:36: R1725: Consider using Python 3 style super() without arguments (super-with-arguments)

Data\Lab7\UI\classes\console.py:28:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\UI\classes\console.py:37:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\UI\classes\console.py:52:15: W0718: Catching too general exception Exception (broad-exception-caught)

Data\Lab7\UI\classes\console.py:56:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\UI\classes\console.py:65:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\UI\classes\console.py:76:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\UI\classes\console.py:85:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\UI\classes\console.py:91:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab7\UI\classes\console.py:96:16: R1724: Unnecessary "elif" after "continue", remove the leading "el" from "elif" (no-else-continue)

Data\Lab7\UI\classes\console.py:106:16: W1203: Use lazy % formatting in logging functions (logging-fstring-interpolation)

Data\Lab7\UI\classes\console.py:5:0: C0411: third party import "rich.console.Console" should be placed before first party imports "global\_variables.\*", "Data.Lab7.BLL.classes.unit\_of\_work.UnitOfWork", "Data.Lab7.DAL.classes.database\_handler.DBHandler", "Data.Lab7.BLL.classes.network\_request.NetworkRequest" (wrong-import-order)

Data\Lab7\UI\classes\console.py:6:0: C0411: third party import "rich.table.Table" should be placed before first party imports "global\_variables.\*", "Data.Lab7.BLL.classes.unit\_of\_work.UnitOfWork", "Data.Lab7.DAL.classes.database\_handler.DBHandler", "Data.Lab7.BLL.classes.network\_request.NetworkRequest" (wrong-import-order)

Data\Lab7\UI\classes\console.py:7:0: C0411: standard import "logging" should be placed before third party imports "rich.console.Console", "rich.table.Table" and first party imports "global\_variables.\*", "Data.Lab7.BLL.classes.unit\_of\_work.UnitOfWork", "Data.Lab7.DAL.classes.database\_handler.DBHandler", "Data.Lab7.BLL.classes.network\_request.NetworkRequest" (wrong-import-order)

Data\Lab7\UI\classes\console.py:1:0: W0614: Unused import(s) os, WIDTH, HEIGHT, FONT, COLOR, COLOR\_RESET, MEMORY\_OPERATIONS, OPERANDS, MEMORY, DIGITS, LINK\_REGEX, EMAIL\_REGEX and PHONE\_REGEX from wildcard import of global\_variables (unused-wildcard-import)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab8.BLL.classes.data\_processor

Data\Lab8\BLL\classes\data\_processor.py:11:0: C0304: Final newline missing (missing-final-newline)

Data\Lab8\BLL\classes\data\_processor.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab8\BLL\classes\data\_processor.py:1:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab8\BLL\classes\data\_processor.py:3:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab8\BLL\classes\data\_processor.py:7:4: C0116: Missing function or method docstring (missing-function-docstring)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Lab8.UI.classes.console

Data\Lab8\UI\classes\console.py:21:0: C0301: Line too long (108/100) (line-too-long)

Data\Lab8\UI\classes\console.py:70:0: C0301: Line too long (109/100) (line-too-long)

Data\Lab8\UI\classes\console.py:110:0: C0304: Final newline missing (missing-final-newline)

Data\Lab8\UI\classes\console.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Lab8\UI\classes\console.py:3:0: E0401: Unable to import 'matplotlib.pyplot' (import-error)

Data\Lab8\UI\classes\console.py:4:0: E0401: Unable to import 'seaborn' (import-error)

Data\Lab8\UI\classes\console.py:11:0: C0115: Missing class docstring (missing-class-docstring)

Data\Lab8\UI\classes\console.py:16:36: E1101: Super of 'Console' has no '\_\_call\_\_' member (no-member)

Data\Lab8\UI\classes\console.py:16:36: R1725: Consider using Python 3 style super() without arguments (super-with-arguments)

Data\Lab8\UI\classes\console.py:29:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab8\UI\classes\console.py:40:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab8\UI\classes\console.py:55:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab8\UI\classes\console.py:67:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab8\UI\classes\console.py:85:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Lab8\UI\classes\console.py:3:0: C0411: third party import "matplotlib.pyplot" should be placed before first party imports "Data.Lab8.BLL.classes.data\_processor.DataProcessor", "Data.Shared.classes.data\_io.DataIO" (wrong-import-order)

Data\Lab8\UI\classes\console.py:4:0: C0411: third party import "seaborn" should be placed before first party imports "Data.Lab8.BLL.classes.data\_processor.DataProcessor", "Data.Shared.classes.data\_io.DataIO" (wrong-import-order)

Data\Lab8\UI\classes\console.py:5:0: C0411: standard import "logging" should be placed before third party imports "matplotlib.pyplot", "seaborn" and first party imports "Data.Lab8.BLL.classes.data\_processor.DataProcessor", "Data.Shared.classes.data\_io.DataIO" (wrong-import-order)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Shared.classes.data\_io

Data\Shared\classes\data\_io.py:50:0: C0304: Final newline missing (missing-final-newline)

Data\Shared\classes\data\_io.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Shared\classes\data\_io.py:1:0: E0401: Unable to import 'pandas' (import-error)

Data\Shared\classes\data\_io.py:2:0: E0401: Unable to import 'mpld3' (import-error)

Data\Shared\classes\data\_io.py:10:0: C0115: Missing class docstring (missing-class-docstring)

Data\Shared\classes\data\_io.py:12:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\data\_io.py:18:12: W1203: Use lazy % formatting in logging functions (logging-fstring-interpolation)

Data\Shared\classes\data\_io.py:19:12: W0707: Consider explicitly re-raising using 'raise FileNotFoundError(f'Error loading data: {e}') from e' (raise-missing-from)

Data\Shared\classes\data\_io.py:22:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\data\_io.py:30:15: W0718: Catching too general exception Exception (broad-exception-caught)

Data\Shared\classes\data\_io.py:27:17: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

Data\Shared\classes\data\_io.py:34:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\data\_io.py:43:25: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

Data\Shared\classes\data\_io.py:48:20: W0707: Consider explicitly re-raising using 'except IOError as exc' and 'raise IOError('The file could not be uploaded, please try again') from exc' (raise-missing-from)

Data\Shared\classes\data\_io.py:3:0: C0411: standard import "os" should be placed before third party imports "pandas", "mpld3.fig\_to\_html" (wrong-import-order)

Data\Shared\classes\data\_io.py:4:0: C0411: standard import "logging" should be placed before third party imports "pandas", "mpld3.fig\_to\_html" (wrong-import-order)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Shared.classes.history

Data\Shared\classes\history.py:28:0: C0304: Final newline missing (missing-final-newline)

Data\Shared\classes\history.py:28:0: C0301: Line too long (105/100) (line-too-long)

Data\Shared\classes\history.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Shared\classes\history.py:7:0: C0115: Missing class docstring (missing-class-docstring)

Data\Shared\classes\history.py:9:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\history.py:11:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

Data\Shared\classes\history.py:15:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\history.py:17:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

Data\Shared\classes\history.py:25:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\history.py:27:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Shared.classes.incorrect\_character\_exception

Data\Shared\classes\incorrect\_character\_exception.py:4:0: C0304: Final newline missing (missing-final-newline)

Data\Shared\classes\incorrect\_character\_exception.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Shared\classes\incorrect\_character\_exception.py:1:0: C0115: Missing class docstring (missing-class-docstring)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Shared.classes.unit\_test

Data\Shared\classes\unit\_test.py:112:0: C0301: Line too long (110/100) (line-too-long)

Data\Shared\classes\unit\_test.py:170:0: C0304: Final newline missing (missing-final-newline)

Data\Shared\classes\unit\_test.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Shared\classes\unit\_test.py:9:0: C0115: Missing class docstring (missing-class-docstring)

Data\Shared\classes\unit\_test.py:16:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\unit\_test.py:20:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\unit\_test.py:24:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\unit\_test.py:29:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\unit\_test.py:36:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\unit\_test.py:137:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

Data\Shared\classes\unit\_test.py:149:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

Data\Shared\classes\unit\_test.py:161:13: W1514: Using open without explicitly specifying an encoding (unspecified-encoding)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module Shared.classes.validators

Data\Shared\classes\validators.py:39:0: C0301: Line too long (115/100) (line-too-long)

Data\Shared\classes\validators.py:44:0: C0301: Line too long (115/100) (line-too-long)

Data\Shared\classes\validators.py:79:0: C0301: Line too long (101/100) (line-too-long)

Data\Shared\classes\validators.py:207:0: C0325: Unnecessary parens after 'not' keyword (superfluous-parens)

Data\Shared\classes\validators.py:246:0: C0304: Final newline missing (missing-final-newline)

Data\Shared\classes\validators.py:1:0: C0114: Missing module docstring (missing-module-docstring)

Data\Shared\classes\validators.py:15:0: C0115: Missing class docstring (missing-class-docstring)

Data\Shared\classes\validators.py:17:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:20:12: R1705: Unnecessary "else" after "return", remove the "else" and de-indent the code inside it (no-else-return)

Data\Shared\classes\validators.py:27:12: W0707: Consider explicitly re-raising using 'except ValueError as exc' and 'raise ValueError('Invalid input, please enter a valid non-negative integer number') from exc' (raise-missing-from)

Data\Shared\classes\validators.py:30:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:50:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:53:12: R1705: Unnecessary "elif" after "return", remove the leading "el" from "elif" (no-else-return)

Data\Shared\classes\validators.py:65:20: W0707: Consider explicitly re-raising using 'except ValueError as exc' and 'raise ValueError('Please enter a valid number / memory operation') from exc' (raise-missing-from)

Data\Shared\classes\validators.py:68:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:73:12: W0707: Consider explicitly re-raising using 'except ValueError as exc' and 'raise ValueError('Please enter a valid number') from exc' (raise-missing-from)

Data\Shared\classes\validators.py:76:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:79:12: R1705: Unnecessary "else" after "return", remove the "else" and de-indent the code inside it (no-else-return)

Data\Shared\classes\validators.py:86:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:112:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:121:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:123:12: R1705: Unnecessary "else" after "return", remove the "else" and de-indent the code inside it (no-else-return)

Data\Shared\classes\validators.py:139:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:151:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:179:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:195:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:204:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:211:12: W0707: Consider explicitly re-raising using 'except ValueError as exc' and 'raise ValueError('Incorrect value, please try again.') from exc' (raise-missing-from)

Data\Shared\classes\validators.py:215:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:228:4: C0116: Missing function or method docstring (missing-function-docstring)

Data\Shared\classes\validators.py:8:0: C0411: standard import "logging" should be placed before first party imports "global\_variables", "Data.Shared.classes.history.History", "Data.Shared.classes.data\_io.DataIO", "Data.Lab5.BLL.classes.cube.Cube", "Data.Lab5.BLL.classes.pyramid.Pyramid", "Data.Lab5.BLL.classes.sphere.Sphere" (wrong-import-order)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module classes.console

UI\classes\console.py:60:0: C0304: Final newline missing (missing-final-newline)

UI\classes\console.py:1:0: C0114: Missing module docstring (missing-module-docstring)

UI\classes\console.py:15:0: C0115: Missing class docstring (missing-class-docstring)

UI\classes\console.py:20:36: E1101: Super of 'Console' has no '\_\_call\_\_' member (no-member)

UI\classes\console.py:20:36: R1725: Consider using Python 3 style super() without arguments (super-with-arguments)

UI\classes\console.py:29:4: C0116: Missing function or method docstring (missing-function-docstring)

UI\classes\console.py:60:12: W1203: Use lazy % formatting in logging functions (logging-fstring-interpolation)

UI\classes\console.py:9:0: C0411: standard import "logging" should be placed before first party imports "Data.Lab1.UI.classes.console", "Data.Lab2.UI.classes.console", "Data.Lab3.UI.classes.console" (...) "Data.Lab6.UI.classes.console", "Data.Lab7.UI.classes.console", "Data.Lab8.UI.classes.console" (wrong-import-order)

\*\*\*\*\*\*\*\*\*\*\*\*\* Module runner

runner.py:1:0: R0801: Similar lines in 2 files

==Lab2.UI.classes.console:[63:85]

==Lab6.UI.classes.console:[72:93]

print("Result : " + str(result.result))

try\_again = input("\nCalculation has finished successfully! \n"

"Current options: \n"

"Try again? (Y / N) \n"

"Store a value into memory? (MS / M+ / M-) \n"

"Your choice: ").lower()

if try\_again in MEMORY\_OPERATIONS:

Validators.validate\_memory(try\_again, result.result)

elif try\_again == "y":

return False

else:

return True

def settings(self):

settings\_prompt = input("\n1 - Change the amount of digits after a decimal point in a number \n"

"2 - Clear history\n"

"Your choice: ")

match settings\_prompt:

case "1":

while True: (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab1.BLL.functions.calculate:[1:18]

==Lab2.BLL.classes.calculator:[14:31]

match operator:

case "+":

return num1 + num2

case "-":

return num1 - num2

case "\*":

return num1 \* num2

case "/":

return num1 / num2

case "^":

return num1 \*\* num2

case "root":

return num1 \*\* (1 / num2)

case "%":

return num1 % num2

case \_:

return 0.0 (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab1.UI.classes.console:[6:25]

==Lab2.UI.classes.console:[8:27]

logger = logging.getLogger(\_\_name\_\_)

logging.basicConfig(filename='Logs/logs.log', encoding='utf-8', level=logging.DEBUG)

class Console:

\_instances = {}

def \_\_call\_\_(self, \*args, \*\*kwargs):

if self not in self.\_instances:

self.\_instances[self] = super(Console, self).\_\_call\_\_(\*args, \*\*kwargs)

else:

self.\_instances[self].\_\_init\_\_(\*args, \*\*kwargs)

return self.\_instances[self]

def \_\_init\_\_(self):

self.main()

@staticmethod

def main():

while True: (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab4.UI.classes.console:[63:73]

==Lab5.UI.classes.console:[91:101]

"1 - Red\n"

"2 - Green\n"

"3 - Yellow\n"

"4 - Blue\n"

"5 - Magenta\n"

"6 - Cyan\n"

"7 - Light gray\n"

"8 - Random\n"

"0 - Default\n"

"Your choice: ") (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab1.UI.classes.console:[6:24]

==Lab3.UI.classes.console:[9:27]

logger = logging.getLogger(\_\_name\_\_)

logging.basicConfig(filename='Logs/logs.log', encoding='utf-8', level=logging.DEBUG)

class Console:

\_instances = {}

def \_\_call\_\_(self, \*args, \*\*kwargs):

if self not in self.\_instances:

self.\_instances[self] = super(Console, self).\_\_call\_\_(\*args, \*\*kwargs)

else:

self.\_instances[self].\_\_init\_\_(\*args, \*\*kwargs)

return self.\_instances[self]

def \_\_init\_\_(self):

self.main()

@staticmethod

def main(): (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab8.UI.classes.console:[7:21]

==classes.console:[11:25]

logger = logging.getLogger(\_\_name\_\_)

logging.basicConfig(filename='Logs/logs.log', encoding='utf-8', level=logging.DEBUG)

class Console:

\_instances = {}

def \_\_call\_\_(self, \*args, \*\*kwargs):

if self not in self.\_instances:

self.\_instances[self] = super(Console, self).\_\_call\_\_(\*args, \*\*kwargs)

else:

self.\_instances[self].\_\_init\_\_(\*args, \*\*kwargs)

return self.\_instances[self]

def \_\_init\_\_(self): (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab3.UI.classes.console:[9:23]

==Lab7.UI.classes.console:[9:23]

logger = logging.getLogger(\_\_name\_\_)

logging.basicConfig(filename='Logs/logs.log', encoding='utf-8', level=logging.DEBUG)

class Console:

\_instances = {}

def \_\_call\_\_(self, \*args, \*\*kwargs):

if self not in self.\_instances:

self.\_instances[self] = super(Console, self).\_\_call\_\_(\*args, \*\*kwargs)

else:

self.\_instances[self].\_\_init\_\_(\*args, \*\*kwargs)

return self.\_instances[self]

def \_\_init\_\_(self): (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab2.UI.classes.console:[8:22]

==Lab6.UI.classes.console:[9:23]

logger = logging.getLogger(\_\_name\_\_)

logging.basicConfig(filename='Logs/logs.log', encoding='utf-8', level=logging.DEBUG)

class Console:

\_instances = {}

def \_\_call\_\_(self, \*args, \*\*kwargs):

if self not in self.\_instances:

self.\_instances[self] = super(Console, self).\_\_call\_\_(\*args, \*\*kwargs)

else:

self.\_instances[self].\_\_init\_\_(\*args, \*\*kwargs)

return self.\_instances[self]

def \_\_init\_\_(self): (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab1.UI.classes.console:[6:20]

==Lab5.UI.classes.console:[4:18]

logger = logging.getLogger(\_\_name\_\_)

logging.basicConfig(filename='Logs/logs.log', encoding='utf-8', level=logging.DEBUG)

class Console:

\_instances = {}

def \_\_call\_\_(self, \*args, \*\*kwargs):

if self not in self.\_instances:

self.\_instances[self] = super(Console, self).\_\_call\_\_(\*args, \*\*kwargs)

else:

self.\_instances[self].\_\_init\_\_(\*args, \*\*kwargs)

return self.\_instances[self]

def \_\_init\_\_(self): (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab3.UI.classes.console:[136:144]

==Lab4.UI.classes.console:[62:70]

color\_prompt = input("Enter the color of your ASCII art:\n"

"1 - Red\n"

"2 - Green\n"

"3 - Yellow\n"

"4 - Blue\n"

"5 - Magenta\n"

"6 - Cyan\n"

"7 - Light gray\n" (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab3.UI.classes.console:[137:144]

==Lab5.UI.classes.console:[91:98]

"1 - Red\n"

"2 - Green\n"

"3 - Yellow\n"

"4 - Blue\n"

"5 - Magenta\n"

"6 - Cyan\n"

"7 - Light gray\n" (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab1.UI.classes.console:[9:20]

==Lab4.UI.classes.console:[5:16]

class Console:

\_instances = {}

def \_\_call\_\_(self, \*args, \*\*kwargs):

if self not in self.\_instances:

self.\_instances[self] = super(Console, self).\_\_call\_\_(\*args, \*\*kwargs)

else:

self.\_instances[self].\_\_init\_\_(\*args, \*\*kwargs)

return self.\_instances[self]

def \_\_init\_\_(self): (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab3.UI.classes.console:[61:70]

==Lab4.UI.classes.console:[36:44]

save\_prompt = input("Do you want to save the text? (y/n): ").lower()

if save\_prompt == "y":

try:

DataIO.upload\_to\_file(ftext)

except IOError:

print("An error occurred during file upload, please check if 'Uploads' folder exists and try again")

def change\_symbols(self): (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab2.UI.classes.console:[48:57]

==Lab6.UI.classes.console:[61:67]

num1 = Validators.validate\_num("\nEnter first number (or MR / MC): ")

operator = Validators.validate\_operator()

if operator in MEMORY\_OPERATIONS:

Validators.validate\_memory(operator, num1)

return False

num2 = Validators.validate\_num("Enter second number (or MR / MC): ")

(duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab5.BLL.classes.pyramid:[20:25]

==Lab5.BLL.classes.sphere:[50:55]

shape = self.shape

z\_offset = max(0, -self.pos\_z)

depth = len(shape)

height = len(shape[0])

width = len(shape[0][0]) (duplicate-code)

runner.py:1:0: R0801: Similar lines in 2 files

==Lab1.UI.functions.calculator\_settings:[11:17]

==Lab2.UI.classes.console:[93:99]

case "2":

History.clear()

print("History cleared successfully")

case \_:

print("Invalid input") (duplicate-code)

-------------------------------------------------------------------

Your code has been rated at 7.33/10 (previous run: 10.00/10, -2.67)

**Код програми:**

"""The user interface of the lab work"""

import Data.Lab1.UI.classes.console

import Data.Lab2.UI.classes.console

import Data.Lab3.UI.classes.console

import Data.Lab4.UI.classes.console

import Data.Lab5.UI.classes.console

import Data.Lab6.UI.classes.console

import Data.Lab7.UI.classes.console

import Data.Lab8.UI.classes.console

from Data.Shared.functions.logger import logger

class Console:

"""The console class of this lab work"""

instance = None

def \_\_new\_\_(cls):

if cls.instance is None:

cls.instance = super(Console, cls).\_\_new\_\_(cls)

return cls.instance

def \_\_init\_\_(self):

logger.info("Started the program")

self.main()

@staticmethod

def main():

"""The main menu of this lab work"""

while True:

prompt = input("Select lab work (1-8): ")

match prompt:

case '1':

logger.info("Started Lab 1")

Data.Lab1.UI.classes.console.Console()

case '2':

logger.info("Started Lab 2")

Data.Lab2.UI.classes.console.Console()

case '3':

logger.info("Started Lab 3")

Data.Lab3.UI.classes.console.Console()

case '4':

logger.info("Started Lab 4")

Data.Lab4.UI.classes.console.Console()

case '5':

logger.info("Started Lab 5")

Data.Lab5.UI.classes.console.Console()

case '6':

logger.info("Started Lab 6")

Data.Lab6.UI.classes.console.Console()

case '7':

logger.info("Started Lab 7")

Data.Lab7.UI.classes.console.Console()

case '8':

logger.info("Started Lab 8")

Data.Lab8.UI.classes.console.Console()

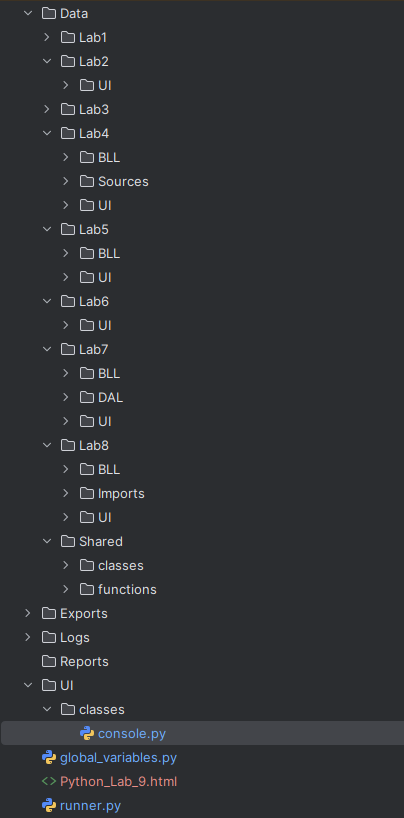
case \_:

logger.info("Ended the program")

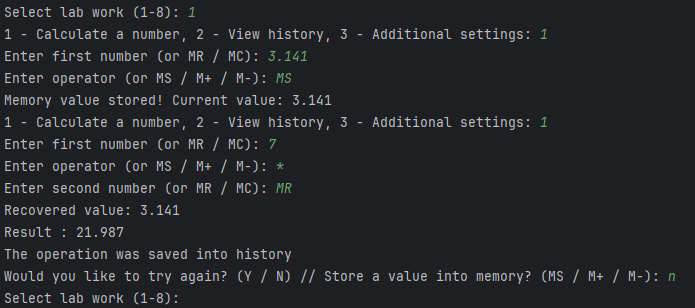
break

logger.info("Ended Lab %s", prompt)

На рис. 1-2 зображено вигляд та результат виконання програми:



*Рис. 1. Структура лабораторної роботи*

*  
Рис. 2. Вигляд програми лабораторної роботи*

Посилання на Github: [PaperGlit/Python\_Lab\_9](https://github.com/PaperGlit/Python_Lab_9)

**Висновок:**

Виконавши ці завдання, я створив програму, що скріплює та узагальнює всі лабораторні роботи, що я виконав з цього предмету.