

# LAB - 5

**Name: Dev Kabra**

**ID: 202001105**

Github repo: [https://github.com/andy-landy/traceback\\_with\\_variables](https://github.com/andy-landy/traceback_with_variables)

(This is the link of the repository which I used to do Static Analysis)

## Installing Mypy:

- Mypy requires Python 3.7 or later to run. To install mypy use this code:

```
python3 -m pip install mypy
```

- Once mypy is installed, for checking any file, run it by using this code:

```
python -m mypy filename.py
```

## Installing Pylint:

- To install Pylint use this code:

```
python -m pip install pylint
```

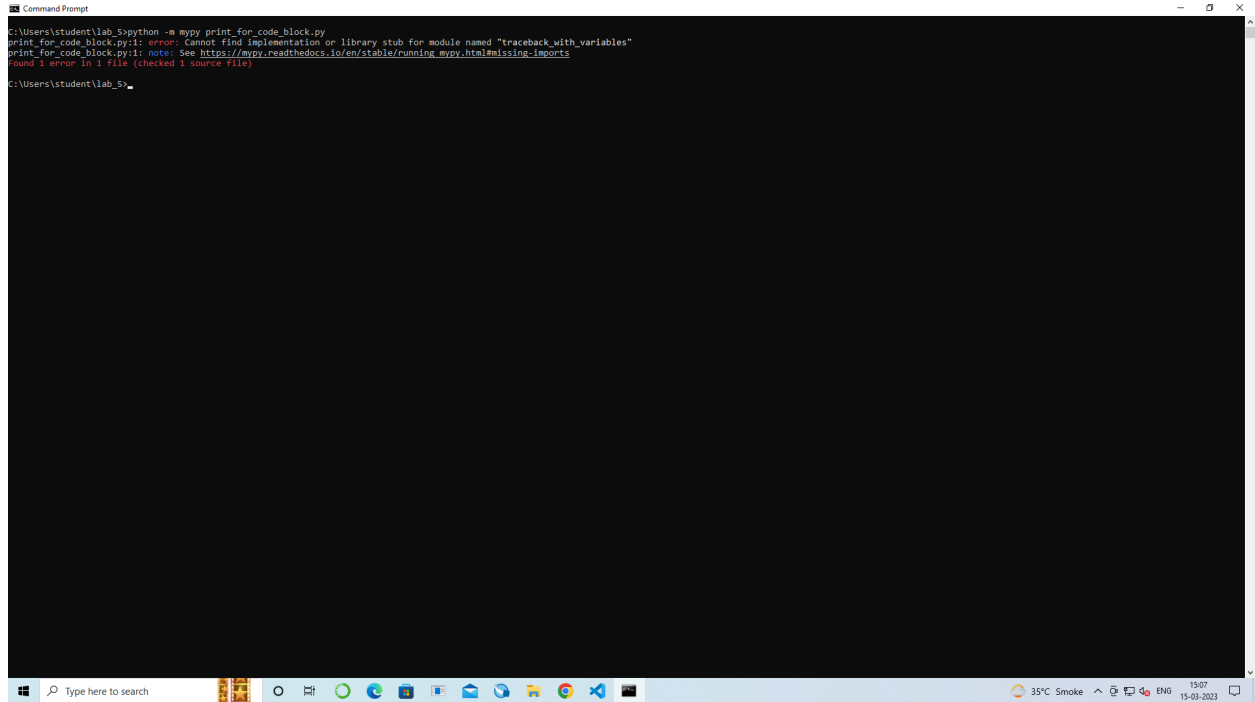
- Once pylint is installed, for checking any file, run it using this code:

```
python -m pylint filename.py
```

(Below the each sequence number has a file linked to it on which analysis was done and the screen shot of the output after the analysis)

1)

[https://github.com/andy-landy/traceback\\_with\\_variables/blob/master/examples/print\\_for\\_code\\_block.py](https://github.com/andy-landy/traceback_with_variables/blob/master/examples/print_for_code_block.py)



The screenshot shows a Windows Command Prompt window titled "Command Prompt". The command prompt is running a Python script named "print\_for\_code\_block.py" using the command "python -m mpy print\_for\_code\_block.py". The output of the script is an error message: "print\_for\_code\_block.py:1: error: Cannot find implementation or library stub for module named 'traceback\_with\_variables'". Below this, it says "print\_for\_code\_block.py:1: note: See https://mypy.readthedocs.io/en/stable/running\_mypy.html#missing-imports" and "Found 1 error in 1 file (checked 1 source file)". The command prompt is running in a directory "C:\Users\student\lab\_5\". The Windows taskbar is visible at the bottom, showing the search bar, task view button, and several application icons. The system tray shows the temperature as 35°C, the word "Smoke", and the date and time as 15:07 on 15-03-2023.

```
Command Prompt
C:\Users\student\lab_5>python -m mpy print_for_code_block.py
print_for_code_block.py:1: error: Cannot find implementation or library stub for module named "traceback_with_variables"
print_for_code_block.py:1: note: See https://mypy.readthedocs.io/en/stable/running_mypy.html#missing-imports
Found 1 error in 1 file (checked 1 source file)
C:\Users\student\lab_5>
```

2)

[https://github.com/andy-landy/traceback\\_with\\_variables/blob/master/tests/test\\_core.py](https://github.com/andy-landy/traceback_with_variables/blob/master/tests/test_core.py)

```
Command Prompt
C:\Users\student\Lab_5>python -m pylint test_core.py
***** Module test_core
test_core.py:87:0: C0301: Line too long (106/100) (line-too-long)
test_core.py:88:0: C0301: Line too long (106/100) (line-too-long)
test_core.py:91:0: C0301: Line too long (117/100) (line-too-long)
test_core.py:97:0: C0301: Line too long (101/100) (line-too-long)
test_core.py:101:0: C0301: Line too long (111/100) (line-too-long)
test_core.py:108:0: C0304: Final newline missing (missing-final-newline)
test_core.py:121:1: W0511: TODO def test_after_unhandled_e(): (fixme)
test_core.py:140:0: C0104: Missing module docstring (missing-module-docstring)
test_core.py:110: E0401: Unable to import 'pytest' (import-error)
test_core.py:3:0: E0401: Unable to import 'traceback_with_variables' (import-error)
test_core.py:5:0: E0401: Unable to import 'tests.dummies' (import-error)
test_core.py:6:0: E0401: Unable to import 'tests.utils' (import-error)
test_core.py:9:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:11:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:10:11: W0718: Catching too general exception Exception (broad-exception-caught)
test_core.py:10:4: C0103: Variable name "e" doesn't conform to snake_case naming style (invalid-name)
test_core.py:17:8: C0103: Variable name "x" doesn't conform to snake_case naming style (invalid-name)
test_core.py:19:28: W1309: Using an f-string that does not have any interpolated variables (f-string-without-interpolation)
test_core.py:19:71: E0601: Using variable "e" before assignment (used-before-assignment)
test_core.py:22:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:25:4: W0702: No exception type(s) specified (bare-except)
test_core.py:35:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:38:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:43:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:48:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:53:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:58:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:63:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:68:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:73:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:78:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:83:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:88:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:89:22: C0103: Argument name "i" doesn't conform to snake_case naming style (invalid-name)
test_core.py:89:31: C0103: Argument name "j" doesn't conform to snake_case naming style (invalid-name)
test_core.py:96:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:100:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:104:0: C0116: Missing function or method docstring (missing-function-docstring)
test_core.py:107:11: W0718: Catching too general exception Exception (broad-exception-caught)
test_core.py:108:12: C0209: Formatting a regular string which could be a f-string (consider-using-f-string)

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

C:\Users\student\Lab_5>
```

3)

[https://github.com/andy-landy/traceback\\_with\\_variables/blob/master/tests/dummies.py](https://github.com/andy-landy/traceback_with_variables/blob/master/tests/dummies.py)

```
Command Prompt
Microsoft Windows [Version 10.0.19044.1826]
(c) Microsoft Corporation. All rights reserved.

C:\Users\student>cd Lab_5

C:\Users\student\Lab_5>python -m pylint dummies.py
***** Module dummies
dummies.py:22:0: C0304: Final newline missing (missing-final-newline)
dummies.py:110: C0116: Missing module docstring (missing-module-docstring)
dummies.py:110: C0115: Missing class docstring (missing-class-docstring)
dummies.py:110: W0903: Too few public methods (1/2) (too-few-public-methods)
dummies.py:6:0: C0116: Missing function or method docstring (missing-function-docstring)
dummies.py:6:0: C0103: Function name "f" doesn't conform to snake_case naming style (invalid-name)
dummies.py:6:6: C0103: Argument name "n" doesn't conform to snake_case naming style (invalid-name)
dummies.py:7:4: C0103: Variable name "s" doesn't conform to snake_case naming style (invalid-name)
dummies.py:7:9: C0209: Formatting a regular string which could be a f-string (consider-using-f-string)
dummies.py:8:4: C0103: Variable name "i" doesn't conform to snake_case naming style (invalid-name)
dummies.py:8:9: C0209: Formatting a regular string which could be a f-string (consider-using-f-string)
dummies.py:9:4: C0103: Variable name "us" doesn't conform to snake_case naming style (invalid-name)
dummies.py:14:7: W0125: Using a conditional statement with a constant value (using-constant-test)
dummies.py:15:0: R1705: Unnecessary "else" after "return", remove the "else" and de-indent the code inside it (no-else-return)
dummies.py:8:0: R1710: Either all return statements in a function should return an expression, or none of them should. (inconsistent-return-statements)
dummies.py:7:4: W0612: Unused variable "s1" (unused-variable)
dummies.py:8:4: W0612: Unused variable "i1" (unused-variable)
dummies.py:9:4: W0612: Unused variable "us" (unused-variable)

Your code has been rated at 0.00/10

C:\Users\student\Lab_5>
```

4)

[https://github.com/andy-landy/traceback\\_with\\_variables/blob/master/tests/test\\_print.py](https://github.com/andy-landy/traceback_with_variables/blob/master/tests/test_print.py)

```
Command Prompt
C:\Users\student\lab_5>python -m pylint test_print.py
***** Module test_print
test_print.py:7:0: C0301: Line too long (103/100) (line-too-long)
test_print.py:55:0: C0301: Line too long (102/100) (line-too-long)
test_print.py:91:0: C0301: Line too long (101/100) (line-too-long)
test_print.py:102:0: C0301: Line too long (112/100) (line-too-long)
test_print.py:109:0: C0304: Final newline missing (missing-final-newline)
test_print.py:110:0: C0116: Missing module docstring (missing-module-docstring)
test_print.py:5:0: E0401: Unable to import 'pytest' (import-error)
test_print.py:7:0: E0401: Unable to import 'traceback_with_variables.print' (import-error)
test_print.py:10:0: E0401: Unable to import 'test_utils' (import-error)
test_print.py:12:0: C0116: Missing function or method docstring (missing-function-docstring)
test_print.py:19:0: C0116: Missing function or method docstring (missing-function-docstring)
test_print.py:20:4: C0103: Variable name "x" doesn't conform to snake_case naming style (invalid-name)
test_print.py:20:4: W0612: Unused variable "x" (unused-variable)
test_print.py:24:0: C0116: Missing function or method docstring (missing-function-docstring)
test_print.py:32:0: C0116: Missing function or method docstring (missing-function-docstring)
test_print.py:44:0: C0116: Missing function or method docstring (missing-function-docstring)
test_print.py:58:0: C0116: Missing function or method docstring (missing-function-docstring)
test_print.py:65:0: C0116: Missing function or method docstring (missing-function-docstring)
test_print.py:73:0: C0116: Missing function or method docstring (missing-function-docstring)
test_print.py:81:0: C0116: Missing function or method docstring (missing-function-docstring)
test_print.py:84:0: C0116: Missing function or method docstring (missing-function-docstring)
test_print.py:101:0: C0116: Missing function or method docstring (missing-function-docstring)
test_print.py:108:0: C0116: Missing function or method docstring (missing-function-docstring)
test_print.py:108:0: C0103: Function name "f" doesn't conform to snake_case naming style (invalid-name)
test_print.py:108:0: C0103: Argument name "n" doesn't conform to snake_case naming style (invalid-name)
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Your code has been rated at 3.51/10

C:\Users\student\lab_5>
```

5)

[https://github.com/andy-landy/traceback\\_with\\_variables/blob/master/tests/utlis.py](https://github.com/andy-landy/traceback_with_variables/blob/master/tests/utlis.py)

```
Command Prompt
C:\Users\student\lab_5>python -m pylint utlis.py
***** Module utlis
utlis.py:40:0: C0301: Line too long (102/100) (line-too-long)
utlis.py:49:0: C0301: Line too long (109/100) (line-too-long)
utlis.py:57:0: C0301: Line too long (102/100) (line-too-long)
utlis.py:73:0: C0304: Final newline missing (missing-final-newline)
utlis.py:1:0: C0116: Missing module docstring (missing-module-docstring)
utlis.py:8:0: E0401: Unable to import 'pytest' (import-error)
utlis.py:10:0: E0401: Unable to import 'traceback_with_variables' (import-error)
utlis.py:13:0: C0116: Missing function or method docstring (missing-function-docstring)
utlis.py:13:14: C0103: Argument name "v1" doesn't conform to snake_case naming style (invalid-name)
utlis.py:13:18: C0103: Argument name "v2" doesn't conform to snake_case naming style (invalid-name)
utlis.py:21:0: C0116: Missing function or method docstring (missing-function-docstring)
utlis.py:22:11: C0209: Formatting a regular string which could be a f-string (consider-using-f-string)
utlis.py:25:13: W514: Using open without explicitly specifying an encoding (unspecified-encoding)
utlis.py:29:13: W514: Using open without explicitly specifying an encoding (unspecified-encoding)
utlis.py:33:0: C0116: Missing function or method docstring (missing-function-docstring)
utlis.py:39:23: C0209: Formatting a regular string which could be a f-string (consider-using-f-string)
utlis.py:40:19: W1318: Using formatting for a string that does not have any interpolated variables (format-string-without-interpolation)
utlis.py:40:19: C0209: Formatting a regular string which could be a f-string (consider-using-f-string)
utlis.py:49:0: C0116: Missing function or method docstring (missing-function-docstring)
utlis.py:50:0: C0116: Missing function or method docstring (missing-function-docstring)
utlis.py:62:0: C0116: Missing function or method docstring (missing-function-docstring)
utlis.py:64:50: C0103: Variable name "e" doesn't conform to snake_case naming style (invalid-name)
utlis.py:72:0: C0116: Missing function or method docstring (missing-function-docstring)
-----
Your code has been rated at 3.54/10

C:\Users\student\lab_5>
```