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## **LAB - 5**

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# Installing Mypy:

- To install mypy use this code: `python3 -m pip install mypy`
- Once mypy is installed, for checking any file, run it by using this command:

`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 command:

`python -m pylint filename.py`

1)Github Repo. link :

<https://github.com/sympy/sympy>

```
29  import os
30  import subprocess
31  from pathlib import Path
32
33  from setuptools import setup, Command
34  from setuptools.command.sdist import sdist

155  description = "run all tests and doctests; also see bin/test and bin/doctest"
156  user_options = [] # setuptools complains if this is not here.
157
158  def __init__(self, *args):
159      self.args = args[0] # so we can pass it to other classes
160      Command.__init__(self, *args)

172
173  class antlr(Command):
174      """Generate code with antlr4"""
175      description = "generate parser code from antlr grammars"
176      user_options = [] # setuptools complains if this is not here.
```

```

302
303
304     if __name__ == '__main__':
305         setup(name='sympy',
306               version=__version__,
307               description='Computer algebra system (CAS) in Python',
308               long_description=(Path(__file__).parent / 'README.md').read_text(),

```

```

PS C:\Lab5\sympy-master> python -m mypy .\setup.py
sympy\geometry\parabola.py:16: error: Name "simplify" already defined (by an import) [no-redef]
sympy\geometry\ellipse.py:18: error: Name "trigsimp" already defined (by an import) [no-redef]
sympy\geometry\ellipse.py:18: error: Name "simplify" already defined (by an import) [no-redef]
sympy\geometry\point.py:27: error: Name "simplify" already defined (by an import) [no-redef]
sympy\solvers\__init__.py:17: error: Name "diophantine" already defined (by an import) [no-redef]
setup.py:33: error: Skipping analyzing "setuptools": module is installed, but missing library stubs or py.typed marker [import]
]
setup.py:34: error: Skipping analyzing "setuptools.command.sdist": module is installed, but missing library stubs or py.typed m
arker [import]
setup.py:34: note: See https://mypy.readthedocs.io/en/stable/running_mypy.html#missing-imports
setup.py:156: error: Need type annotation for "user_options" (hint: "user_options: List[<type>] = ...") [var-annotated]
setup.py:176: error: Need type annotation for "user_options" (hint: "user_options: List[<type>] = ...") [var-annotated]
setup.py:306: error: Name "__version__" is not defined [name-defined]
Found 10 errors in 5 files (checked 1 source file)

```

2)Github Repo. link :

<https://github.com/rajansh87/School-Management-System>

```

1  from Tkinter import *
2  root1=Tk()
3  root1.geometry('1080x640')
4  root1.configure(background='black')
5  root1.title('Splash Screen')
6  img=PhotoImage(file='my.gif')

```

```

PS C:\Lab5\School-Management-System-master> python -m mypy .\1718035.py
newproject_2.py:2: error: Skipping analyzing "pandas": module is installed, but missing library stubs or py.typed marker [import]
newproject_2.py:3: error: Cannot find implementation or library stub for module named "tkMessageBox" [import]
newproject_2.py:7: error: Skipping analyzing "Tkinter": module is installed, but missing library stubs or py.typed marker [import]
newproject_2.py:33: error: Name "Tk" is not defined [name-defined]
newproject_2.py:37: error: Name "PhotoImage" is not defined [name-defined]
newproject_2.py:38: error: Name "Label" is not defined [name-defined]
newproject_2.py:653: error: Name "PhotoImage" is not defined [name-defined]
newproject_2.py:655: error: Name "Button" is not defined [name-defined]
newproject_2.py:657: error: Name "Label" is not defined [name-defined]

```

```
School-Management-System-master > 171B035.py > ...
1  from Tkinter import *
2  root1=Tk()
3  root1.geometry('1080x640')
4  root1.configure(background='black')
5  root1.title('Splash Screen')
6  img=PhotoImage(file='my.gif')
7  l=Label(root1,text='Name - Anshraj Shrivastava\nEnrollment Number - 171B035\nBatch - B1\nPhone Number - 7000540479\n')
8  l.place(x=350,y=350)
9  def fun(e):
10     root1.destroy()
11     import newproject_2
12     root1.mainloop()
13 l=Label(root1,image=img)
14 l.bind('<Motion>',fun)
15 l.place(x=400,y=5)
16 root1.mainloop()
17
```

```
PS C:\Lab5\School-Management-System-master> python -m pylint .\171B035.py
***** Module 171B035
171B035.py:7:0: C0301: Line too long (235/100) (line-too-long)
171B035.py:1:0: C0114: Missing module docstring (missing-module-docstring)
171B035.py:1:0: C0103: Module name "171B035" doesn't conform to snake_case naming style (invalid-name)
171B035.py:1:0: W0401: Wildcard import Tkinter (wildcard-import)
171B035.py:9:0: C0116: Missing function or method docstring (missing-function-docstring)
171B035.py:9:8: C0103: Argument name "e" doesn't conform to snake_case naming style (invalid-name)
171B035.py:11:4: C0415: Import outside toplevel (newproject_2) (import-outside-toplevel)
171B035.py:9:8: W0613: Unused argument 'e' (unused-argument)
171B035.py:11:4: W0611: Unused import newproject_2 (unused-import)
171B035.py:1:0: W0614: Unused import(s) enum, sys, types, TclError, re, wantobjects, TkVersion, TclVersion, READABLE, WRITABLE, EXCEPTION, EventType, Event, NoDefaultRoot, Variable, StringVar, IntVar, DoubleVar, BooleanVar, mainloop, getint, getdouble, getboolean, Misc, CallWrapper, XView, YView, Wm, Tcl, Pack, Place, Grid, BaseWidget, Widget, Toplevel, Button, Canvas, Checkbutton, Entry, Frame, Listbox, Menu, Menubutton, Message, Radiobutton, Scale, Scrollbar, Text, OptionMenu, Image, BitmapImage, image_names, image_types, Spinbox, LabelFrame, PanedWindow, NO, FALSE, OFF, YES, TRUE, ON, N, S, W, E, NW, SW, NE, SE, NS, EW, NSEW, CENTER, NONE, X, Y, BOTH, LEFT, TOP, RIGHT, BOTTOM, RAISED, SUNKEN, FLAT, RIDGE, GROOVE, SOLID, HORIZONTAL, VERTICAL, NUMERIC, CHAR, WORD, BASELINE, INSIDE, OUTSIDE, SEL, SEL_FIRST, SEL_LAST, END, INSERT, CURRENT, ANCHOR, ALL, NORMAL, DISABLED, ACTIVE, HIDDEN, CASCADE, CHECKBUTTON, COMMAND, RADIOBUTTON, SEPARATOR, SINGLE, BROWSE, MULTIPLE, EXTENDED, DOTBOX, UNDERLINE, PIESLICE, CHORD, ARC, FIRST, LAST, BUTT, PROJECTING, ROUND, BEVEL, MITER, MOVETO, SCROLL, UNITS and PAGES from wildcard import of Tkinter (unused-wildcard-import)

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Your code has been rated at 3.75/10
```

3)Github Repo. link :

<https://github.com/ocelma/python-recsys>

```
2  try:
3      from setuptools import setup, Extension
4  except ImportError:
5      from distutils.core import setup, Extension
6
7  VERSION = "0.2"
8
```

```

PS C:\Lab5> python -m mypy .\main.py
main.py:3: error: Skipping analyzing "setuptools": module is installed, but missing library stubs or py.typed marker [import]
main.py:3: note: See https://mypy.readthedocs.io/en/stable/running_mypy.html#missing-imports
Found 1 error in 1 file (checked 1 source file)
PS C:\Lab5>

```

4)Github Repo. link :

<https://github.com/KRISHNA-0017/PYTHON-PROJECT>

```

1  import pandas as pd
2  from tabulate import tabulate
3  import mysql.connector as sqlt
4  import matplotlib.pyplot as plt
5  con=sqlt.connect(host = "localhost", user = "root", passwd="shrikrishna17#", database = "inventory")
6  cursor=con.cursor()
7  def add_customer():

```

```

PS C:\Lab5> cd .\PYTHON-PROJECT-main\Inventory
PS C:\Lab5\PYTHON-PROJECT-main\Inventory> python -m mypy .\Customer.py
Customer.py:1: error: Skipping analyzing "pandas": module is installed, but missing library stubs or py.typed marker [import]
Customer.py:2: error: Library stubs not installed for "tabulate" [import]
Customer.py:2: note: Hint: "python3 -m pip install types-tabulate"
Customer.py:2: note: (or run "mypy --install-types" to install all missing stub packages)
Customer.py:3: error: Skipping analyzing "mysql.connector": module is installed, but missing library stubs or py.typed marker [import]
Customer.py:3: note: See https://mypy.readthedocs.io/en/stable/running_mypy.html#missing-imports
Customer.py:3: error: Skipping analyzing "mysql": module is installed, but missing library stubs or py.typed marker [import]
Customer.py:4: error: Skipping analyzing "matplotlib.pyplot": module is installed, but missing library stubs or py.typed marker [import]
Customer.py:4: error: Skipping analyzing "matplotlib": module is installed, but missing library stubs or py.typed marker [import]
Found 6 errors in 1 file (checked 1 source file)
PS C:\Lab5\PYTHON-PROJECT-main\Inventory>

```

5)Github Repo. link :

<https://github.com/danny329/cmos/blob/master/manage.py>

```

7  def main():
8      os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'cmos.settings')
9      try:
10         from django.core.management import execute_from_command_line
11     except ImportError as exc:
12         raise ImportError(
13             "Couldn't import Django. Are you sure it's installed and "
14             "available on your PYTHONPATH environment variable? Did you "
15             "forget to activate a virtual environment?"
16         ) from exc
17     execute_from_command_line(sys.argv)
18
19
20 if __name__ == '__main__':
21     main()

```

```

PS C:\Lab5> python -m pylint .\ok.py
***** Module ok
ok.py:21:0: C0304: Final newline missing (missing-final-newline)
ok.py:7:0: C0116: Missing function or method docstring (missing-function-docstring)
ok.py:10:8: C0415: Import outside toplevel (django.core.management.execute_from_command_line) (import-outside-toplevel)

-----
Your code has been rated at 7.27/10

PS C:\Lab5> 

```

## => Import Error

It occurs when the import statement of a module fails. It typically indicates that the module you are trying to import cannot be found or there is an issue with the module's code that is preventing it from being imported correctly.

## => Undefined variable

It occurs when you reference a variable that has not been defined in the current scope.

## => Redefined builtin

It is a warning error that is raised when you define a variable or function with the same name as a built-in Python function or keyword. This can lead to unexpected behavior and bugs in your code.

## => Bad indentation

This warning is raised when there are inconsistent indentation levels in your code. It could occur if you mix tabs and spaces, or if you use the wrong number of spaces for indentation.

## => missing module

This warning is raised when a module is missing a docstring. A docstring is a string literal that appears as the first statement in a module, function, class, or method definition.

## => Invalid name

This warning is raised when a variable or function name does not conform to the naming convention for Python code.

## => Trailing white space

This warning is raised when there is trailing whitespace at the end of a line.

**(In pylint errors are define with error number : )**

**C0304 : Missing final newline**

This warning is raised when there is no final newline at the end of a file. This can cause issues with some text editors and tools.

**C0116 : Missing function docstring**

Missing function or method docstring used when a function or method has no docstring. Some special methods like `__init__`, protected, private functions, setters and deleters do not require a docstring (learn more from testscases).

**C0415 : Import outside top level**

Used when an import statement is used anywhere other than the module toplevel. Move this import to the top of the file.