

Python_Activity42

Student Activity: Code Review and Static Analysis

Objective:

Review and improve a poorly written Python script using manual inspection and static analysis tools.

Instructions:

1. **Review the Python script below manually.**
 - Identify at least 3 issues in naming, formatting, documentation, or logic.
 - Write them down as bullet points.
 2. **Use one or more static analysis tools:**
 - `pylint filename.py`
 - `flake8 filename.py`
 - `black filename.py` (for formatting)
 3. **Fix the code** based on the issues you found and the tool suggestions.
 4. **Submit these 3 files:**
 - `original42_script.py` (unmodified)
 - `revised42_script.py` (your improved version)
 - `review42_notes.txt` (list of what you fixed)
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Script to Review:

Code block

```
1  # This script calculates the area of a circle
2
3  import math, os
4
5  def CalcArea(R):
```

```
6     x = 3.14 * R * R
7     return x
8
9     def display():
10         r = 5
11         print("area is:")
12         print(CalcArea(r))
13
14     def unused_function():
15         pass
16
17     display()
```

Tip:

You can run the tools from the terminal or command prompt. Make sure to install them using:

Code block

```
1  pip install pylint flake8 black
```