

Bandit is a source code security analysis tool that scans for known vulnerabilities in code written in Python (Static Application Security Testing)

1. Tested as a notebook .ipynb file

Result:

```
PS C:\Users\Yu Hui\Documents\GitHub\ict3104-p2-team08> python -m bandit 3104_T08.ipynb
[main] INFO profile include tests: None
[main] INFO profile exclude tests: None
[main] INFO cli include tests: None
[main] INFO cli exclude tests: None
[main] INFO running on Python 3.9.13
[node_visitor] WARNING Unable to find qualified name for module: 3104_T08.ipynb
Run started:2022-11-15 05:59:32.870777

Test results:
No issues identified.

Code scanned:
Total lines of code: 962
Total lines skipped (#nosec): 0

Run metrics:
Total issues (by severity):
Undefined: 0
Low: 0
Medium: 0
High: 0
Total issues (by confidence):
Undefined: 0
Low: 0
Medium: 0
High: 0
Files skipped (0):
```

2. Download the source code only (as python file)

Result:

```
PS C:\Users\Yu Hui\Downloads> python -m bandit 3104_T08.py
[main] INFO profile include tests: None
[main] INFO profile exclude tests: None
[main] INFO cli include tests: None
[main] INFO cli exclude tests: None
[main] INFO running on Python 3.9.13
[node_visitor] WARNING Unable to find qualified name for module: 3104_T08.py
Run started:2022-11-15 06:03:40.242637

Test results:
No issues identified.

Code scanned:
Total lines of code: 339
Total lines skipped (#nosec): 0

Run metrics:
Total issues (by severity):
Undefined: 0
Low: 0
Medium: 0
High: 0
Total issues (by confidence):
Undefined: 0
Low: 0
Medium: 0
High: 0
Files skipped (0):
```

Conclusion:

- Secured and safe as it passes all the vulnerabilities test.