

Software Quality Assurance Final Project

Maritza Spott

4A. GIT HOOK

The CSV file created is labeled 'issues_found.csv'. It is currently in .gitignore with pre-commit, but a copy of the file from one upload is in the main folder (SQA-WARRIOR-SQA2023-AUBURN). A screenshot is also below.

AutoSave

Issues Found

Search

Maritz Sport

FileHomeInsertDrawPage LayoutFormulasDataReviewViewAutomateDeveloperHelpAcrobat

Undo

Clipboard

Font

Alignment

Number

Conditional Formatting

Format as Table

Cell Styles

Insert

Delete

Format

Editing

Find & Select

Analysis

Sensitivity

CommentsShare

A1

File name

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	filename	test_name	test_id	issue_seve	issue_conf	issue_cwe	issue_text	line_num	col_offset	end_col	oline_range	more_info										
2	KubeSec-m-hardcoded B105	LOW	MEDIUM	https://cwe	Possible ha	8	22	55 [8]			https://bandit.readthedocs.io/en/1.7.5/plugins/b105_hardcoded_password_string.html											
3	KubeSec-m-hardcoded B105	LOW	MEDIUM	https://cwe	Possible ha	9	22	56 [9]			https://bandit.readthedocs.io/en/1.7.5/plugins/b105_hardcoded_password_string.html											
4	KubeSec-m-hardcoded B105	LOW	MEDIUM	https://cwe	Possible ha	10	22	57 [10]			https://bandit.readthedocs.io/en/1.7.5/plugins/b105_hardcoded_password_string.html											
5	KubeSec-m-hardcoded B105	LOW	MEDIUM	https://cwe	Possible ha	11	22	57 [11]			https://bandit.readthedocs.io/en/1.7.5/plugins/b105_hardcoded_password_string.html											
6	KubeSec-m-hardcoded B105	LOW	MEDIUM	https://cwe	Possible ha	12	22	60 [12]			https://bandit.readthedocs.io/en/1.7.5/plugins/b105_hardcoded_password_string.html											
7	KubeSec-m-hardcoded B105	LOW	MEDIUM	https://cwe	Possible ha	13	22	57 [13]			https://bandit.readthedocs.io/en/1.7.5/plugins/b105_hardcoded_password_string.html											
8	KubeSec-m-hardcoded B105	LOW	MEDIUM	https://cwe	Possible ha	14	22	60 [14]			https://bandit.readthedocs.io/en/1.7.5/plugins/b105_hardcoded_password_string.html											
9	KubeSec-m-hardcoded B105	LOW	MEDIUM	https://cwe	Possible ha	15	22	59 [15]			https://bandit.readthedocs.io/en/1.7.5/plugins/b105_hardcoded_password_string.html											
10	KubeSec-m-hardcoded B105	LOW	MEDIUM	https://cwe	Possible ha	16	22	48 [16]			https://bandit.readthedocs.io/en/1.7.5/plugins/b105_hardcoded_password_string.html											
11	KubeSec-m-hardcoded B105	LOW	MEDIUM	https://cwe	Possible ha	17	22	57 [17]			https://bandit.readthedocs.io/en/1.7.5/plugins/b105_hardcoded_password_string.html											
12	KubeSec-m-hardcoded B105	LOW	MEDIUM	https://cwe	Possible ha	106	22	59 [106]			https://bandit.readthedocs.io/en/1.7.5/plugins/b105_hardcoded_password_string.html											
13	KubeSec-m-hardcoded B105	LOW	MEDIUM	https://cwe	Possible ha	81	31	39 [81]			https://bandit.readthedocs.io/en/1.7.5/plugins/b105_hardcoded_password_string.html											

issues_found

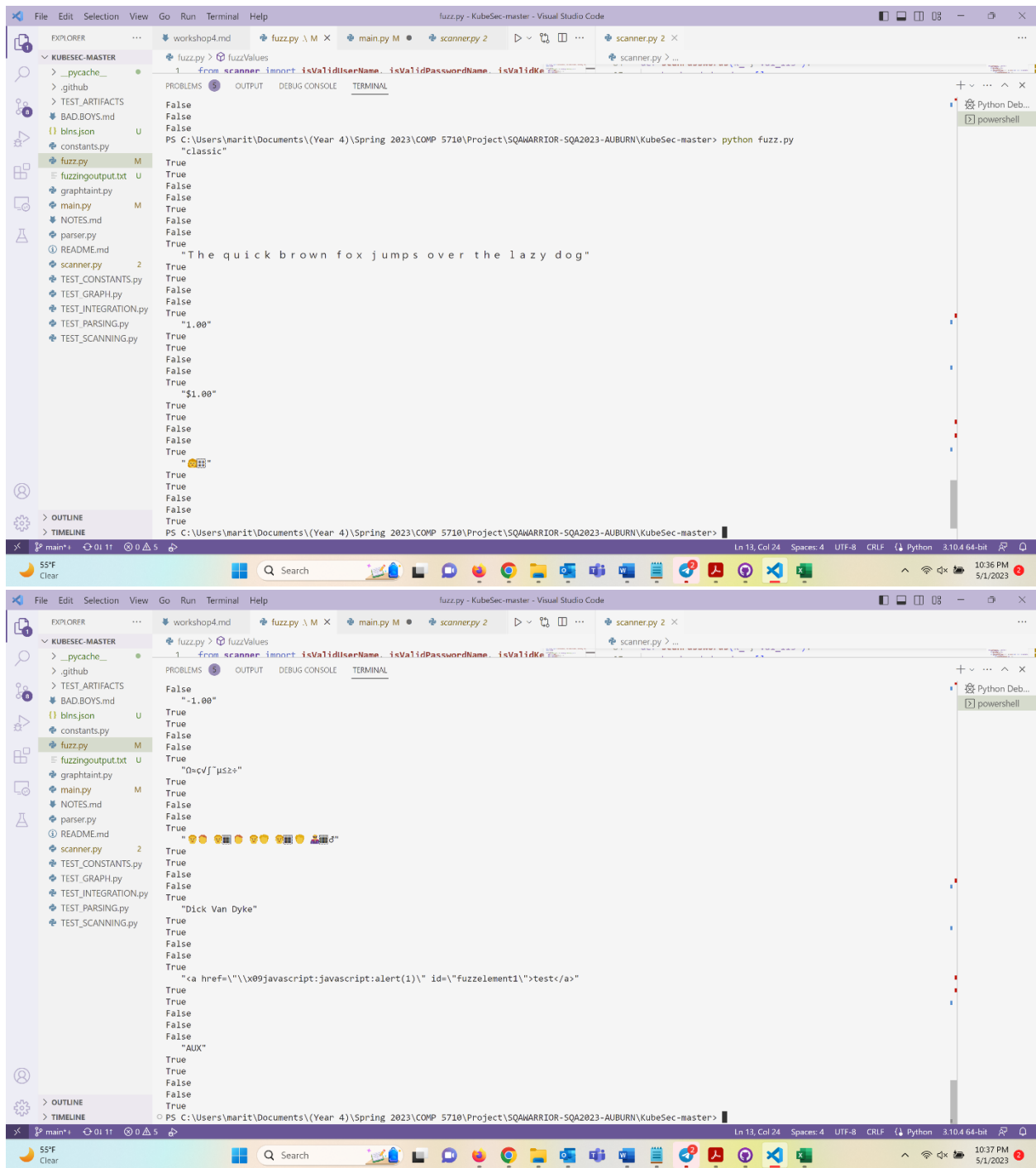
Ready

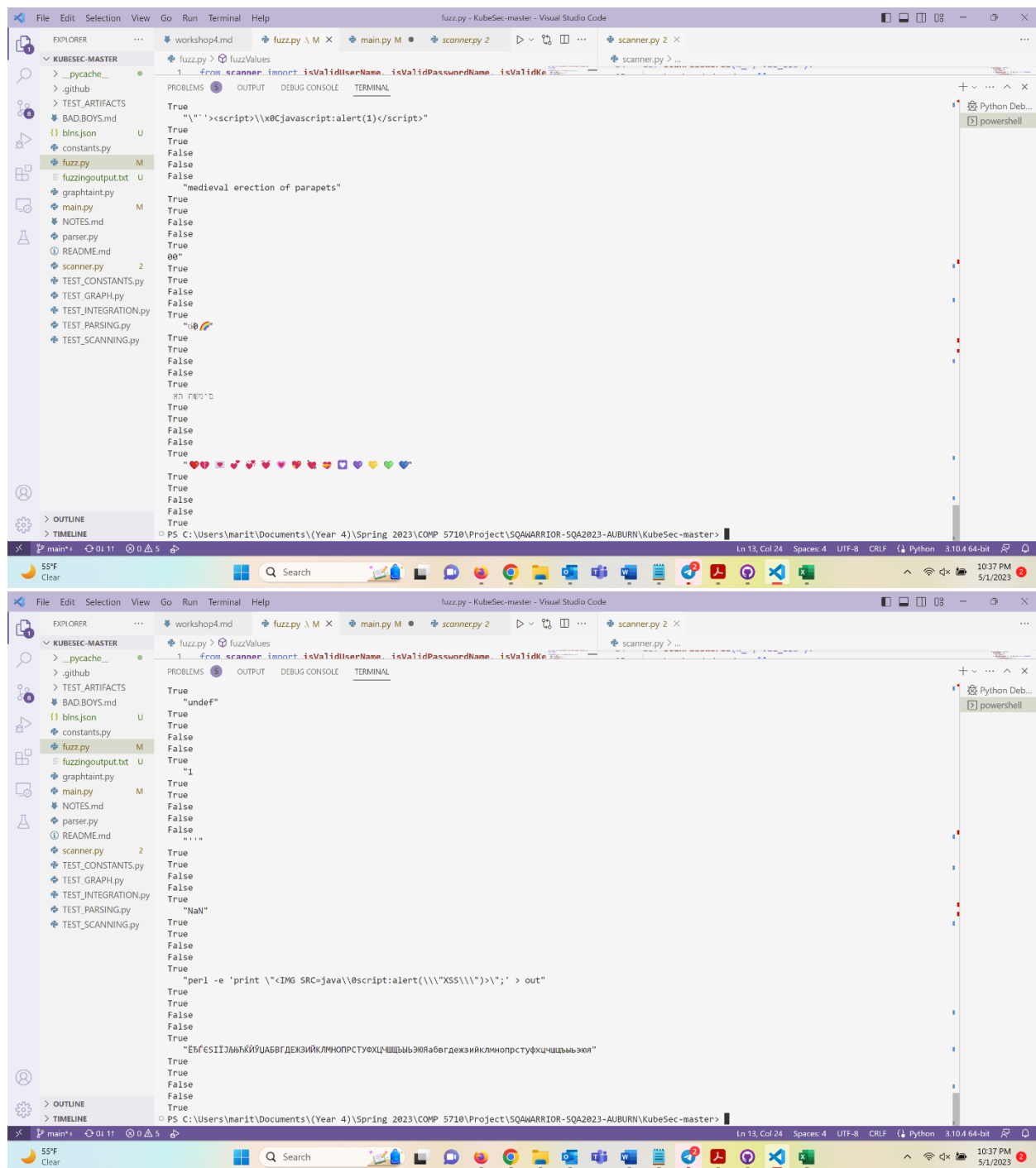
66°F Sunny

8:18 PM 5/1/2023

4B. FUZZING

I created a fuzzing method that selects seven random phrases from blns.json file to run through five functions in scanner.py. The five functions are 'isValidUserName', 'isValidPasswordName', 'isValidKey', 'checkIfValidKeyValue', and 'checkIfValidSecret'. Screenshots of output are below where some of the methods allow emojis to be valid.





4B. FORENSICS: LOGGING

For 4B, I used logging to identify vulnerabilities from poisoning attacks and model tricking.

The five functions scanned were ``getYAMLfiles``, ``scanForHTTP``, ``scanForMissingSecurityContext``, and ``getItemFromSecret`` in `scanner.py` and ``getYAMLfiles`` in `graphtaint.py`.

LESSONS LEARNED

1. Bandit is very picky about white space and does not like `blsn.json` at all because it is not formatted according to its standards.
2. I had to push files independently to make sure they were up to Bandit's standards.
3. Some of the checking functions in `scanner.py` worked better than others, as they wouldn't allow many fraudulent inputs go through as valid.