WorkShop 6

Screenshot's for the WorkShop

```
C:\Users\singh>pip install bandit
Collecting bandit
Downloading bandit-1.7.18-py3-none-any.whl.metadata (6.7 kB)
Collecting byYAML-5.3.1 (from bandit)
Downloading PyYAML-5.3.1 (from bandit)
Downloading pyYAML-5.2.20,8 (from bandit)
Downloading stevedore-5.3.0-py3-none-any.whl.metadata (2.3 kB)
Collecting stevedore-5.3.0-py3-none-any.whl.metadata (18 kB)
Collecting princh (from bandit)
Downloading prich-13.9,2-py3-none-any.whl.metadata (18 kB)
Collecting pbr>2.0.0 (from stevedore>-1.20.0-bandit)
Downloading pbr-6.1.0-py2.yy3-none-any.whl.metadata (3.4 kB)
Collecting narkdown-it-py>-2.2.0 (from it-b-bandit)
Downloading markdown.it-py>-2.2.0 (from it-b-bandit)
Downloading markdown.it-py>-2.2.0 (from it-b-bandit)
Downloading markdown.it-py>-2.2.0 (from it-b-bandit)
Downloading markdown.it-py>-2.2.0-py3-none-any.whl.metadata (6.9 kB)
Requirement already satisfied: pygemts<5.0.0,>=2.13.0 in c:\users\singh\appdata\roaming\python\python\python310\site-packages (from rich->bandit) (2.18.0)
Requirement already satisfied: pygemts<5.0.0,>=2.13.0 in c:\users\singh\appdata\roaming\python\python310\site-packages (from rich->bandit) (2.18.0)
Requirement already satisfied: pygemts<5.0.0,>=2.13.0 in c:\users\singh\appdata\roaming\python\python310\site-packages (from rich->bandit) (2.18.0)
Downloading mdurl-0.1 (from markdown-it-py>-2.2.0->rich->bandit)
Downloading mdurl-0.1 (2-py3-none-any.whl (130 kB)
Downloading bandit-1.7.10-py3-none-any.whl (130 kB)
Downloading bandit-1.7.10-py3-none-any.whl (120 kB)
Downloading stevedore-5.3.0-py3-none-any.whl (120 kB)
Downloading markdown-it-py3-0.0-py3-none-any.whl (180 kB)
Downloading markdown-it-py3-0.0-py3-none-any.whl (180 kB)
Downloading markdown-it-py3-0.0-py3-none-any.whl (180 kB)
Downloading markdown-it-py3-0.0-py3-none-any.whl (180 kB)
Installing collected packages: Py4ML, pbr, mdurl, stevedore, markdown-it-py, rich, bandit
Successfully installed Py4ML-6.0 2 bandit-1.7.10 markdown-it-py-3.0.0 mdurl-0.1.2 pbr-6.1.0 rich-13.9.2 stevedore-5.3.0
```

Above screenshot, installing the bandit with the command of 'pip install bandit'

WorkShop 6

Screenshot's for the WorkShop

```
C:\Users\singhebandit -h
\[ \tau_1 \] \[ \ta
```

```
import_ftplib
B403
         import_pickle
import_subprocess
B404
B405
         import_xml_etree
B406
         import_xml_sax
B407
         import_xml_expat
         import_xml_minidom
import_xml_pulldom
B408
B409
         import_lxml
import_xmlrpclib
B410
B411
         import_httpoxy
B412
B413
         import_pycrypto
         import_pyghmi
request_with_no_cert_validation
B415
B501
         ssl_with_bad_version
ssl_with_bad_defaults
B502
B503
         ssl_with_no_version
B504
B505
         weak_cryptographic_key
B506
         yaml_load
B507
         ssh_no_host_key_verification
B508
         snmp_insecure_version
         snmp_weak_cryptography
B509
B601
         paramiko_calls
B602
         subprocess_popen_with_shell_equals_true
B603
         subprocess_without_shell_equals_true
B604
         any_other_function_with_shell_equals_true
B605
         start_process_with_a_shell
         start_process_with_no_shell
start_process_with_partial_path
B606
B607
         hardcoded_sql_expressions
B608
         linux_commands_wildcard_injection
B609
B610
         django_extra_used
         django_rawsql_used
logging_config_insecure_listen
B611
B612
         trojansource
B613
         pytorch_load_save
B614
B701
         jinja2_autoescape_false
B702
         use_of_mako_templates
         django_mark_safe
```

Above screenshot's, verifies that bandit is installed. Using the command 'bandit -h'

Screenshot's for the WorkShop

```
C:\Users\singh\WorkShop_6>bandit simple.py
[main] IMFO profile include tests: None
[main] IMFO profile include tests: None
[main] IMFO profile exclude tests: None
[main] IMFO clarecture tests: None
[main] IMFO
[m
```

Above screenshot, used the same code as professor had in his recording, screenshot is about running the command 'bandit simple.py' which runs the simple.py file.

Above screenshot, downloaded the 'w6.zip' folder and unzipped the folder.

WorkShop_6

Screenshot's for the WorkShop

```
. Redium Confidence: High
Se2 (https://cem.sitre.org/data/definitions/502.html)
size (https://bandit.readthedocs.io/en/1.7.13/p/lugins/b6ii_pytorch_load_save.html
notice (https://bandit.readthedocs.io/en/1.7.13/p/lugins/b6ii_pytorch_load_save.html
notice (https://bc.notice.notice)
size(Goodel_Lo_ave.args.output_model)
size(Doodel_Lo_ave.args.output_model)
                             lX/detr/dataset_mapper.py:30:8
iample_style == "range":
assert len(min_size) == 2, "more than 2 ({}) min_size(s) are provided for ranges".format(len(min_size))
                            d2\detr\detr.py:55:8
masks = []
assert len(feature_shapes) == len(self.feature_strides)
for idx, shape in enumerate(feature_shapes):
>> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/
     ndom
Location: .\datasets\transforms.py:163:12
2     def __call__(self, img: PIL.Image.Image, target: dict):
3     w = random.randint(self.min_size, min(img.width, self.max_size))
4     h = random.randint(self.min_size, min(img.height, self.max_size))
      >> Issue: [B311:blacklist] Standard pseudo-random generators are not suitable for security/cryptographic purposes.
Severity: Low Confidence: High
CWE: CWE-330 (https://cwe.mitre.org/data/definitions/330.html)
More Info: https://bandit.readthedocs.io/en/1.7.10/blacklists/blacklist_calls.html#b311-
     Issue: [8614:pytorch_load_save] Use of unsafe PyTorch load or save
Severity: Medium Confidence: High
GRE: QHE-502 (https://cwe.mitre.org/data/definitions/582.html)
Rore Info: https://bandit.readthedocs.io/en/1.7.18/plugins/b614_pytorch_load_save.html
Gocation: Luterias oppose
if is_amin_processi
toth_save(angs);
toth_save(angs);
toth_save(angs);
 > Issue: [8614:pytorch_load_save] Use of unsafe PyTorch load or save
Severity: Medium Confidence: High
CME: CME-502 (https://ce.mitre.org/data/definitions/502.html)
More Info: https://bandit.readthedocs.io/en/1.7.10/plugins/b614_pytorch_load_save.html
Location: .\util\plot_utils.py:86:15
6or f, color, name in zipffiles, sns.color_palette("Blues", n_colors=len(files)
```

Above screenshot's, after unzipping the folder ran the command 'bandit -r .' to scan files.