IT314 - Software Engineering Lab 5 - Static Analysis

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Language: Python Tool: Mypy 1) git repository: https://github.com/jassics/learning-python/blob/master/basic-concepts/2a-while-loop.py code: #!usrbinpython import random # While loop syntax # while expression # statement(s) # You can use else block with while as well # while expression # statement(s) # else # statement(s) guess_num_range = 20 num_to_be_guessed = int(guess_num_range random.random()) + 1 guess = 0while guess != num_to_be_guessed guess = int(input(Guess the number)) if guess 0 if guess num_to_be_guessed print(Number is too large) elif guess num_to_be_guessed print(Number is too small) else

print(Sorry that you're giving up!)

```
break
else
print(Congratulation. You made it!)
```

Error:

```
C:\Users\student\Pictures\l5>python -m mypy b.py
b.py:17: error: expected ':' [syntax]
Found 1 error in 1 file (errors prevented further checking)
```

Here, We have lots of syntax error we can just simply direct it and solve it.

2.

Code:

git repository:

https://github.com/jassics/learning-python/blob/master/basic-concepts/10-error-handling.py

```
import requests as req
base_url="https://github.com/"
username = "deepraj1729"

url = base_url+username

#GET request to github for the username
try:
    res = req.get(url)
    if res.status_code == 404:
        print("Error 404. Page not found")
    elif res.status_code == 200:
        print("Status: OK")

except Exception as e:
    print("Unable to establish connection")
    print(e)
```

Error:

```
C:\Users\student\Pictures\l5>python -m mypy a.py
a.py:1: error: Library stubs not installed for "requests" [import]
a.py:1: note: Hint: "python3 -m pip install types-requests"
a.py:1: note: (or run "mypy --install-types" to install all missing stub packages)
a.py:1: note: See <a href="https://mypy.readthedocs.io/en/stable/running mypy.html#missing-imports">https://mypy.readthedocs.io/en/stable/running mypy.html#missing-imports</a>
Found 1 error in 1 file (checked 1 source file)
```

Here, error is because of "requests" library is not install, we can install library "requests" and solve it.