This assignment is based on Exercise 8.4 from your textbook. Each of the following Python functions is supposed to check whether its argument has any lowercase letters.

For each function, describe what it actually does when called with a string argument. If it does not correctly check for lowercase letters, give an example argument that produces incorrect results, and describe why the result is incorrect.

# 1

def any\_lowercase1(s):

for c in s:

if c.islower():

return True

else:

return False

# 2

def any\_lowercase2(s):

for c in s:

if 'c'.islower():

return 'True'

else:

return 'False'

# 3

def any\_lowercase3(s):

for c in s:

flag = c.islower()

return flag

# 4

def any\_lowercase4(s):

flag = False

for c in s:

flag = flag or c.islower()

return flag

# 5

def any\_lowercase5(s):

for c in s:

if not c.islower():

return False

return True