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