Week-10

Start with empty mappings for both s and t:

s: {} t:

{}

Now, let's iterate through the characters in both strings:

For the first character, 'e' in s and 'a' in t:

s: {'e' -> 'a'} t:

{'a' -> 'e'}

For the second character, 'g' in s and 'd' in t:

s: {'e' -> 'a', 'g' -> 'd'} t:

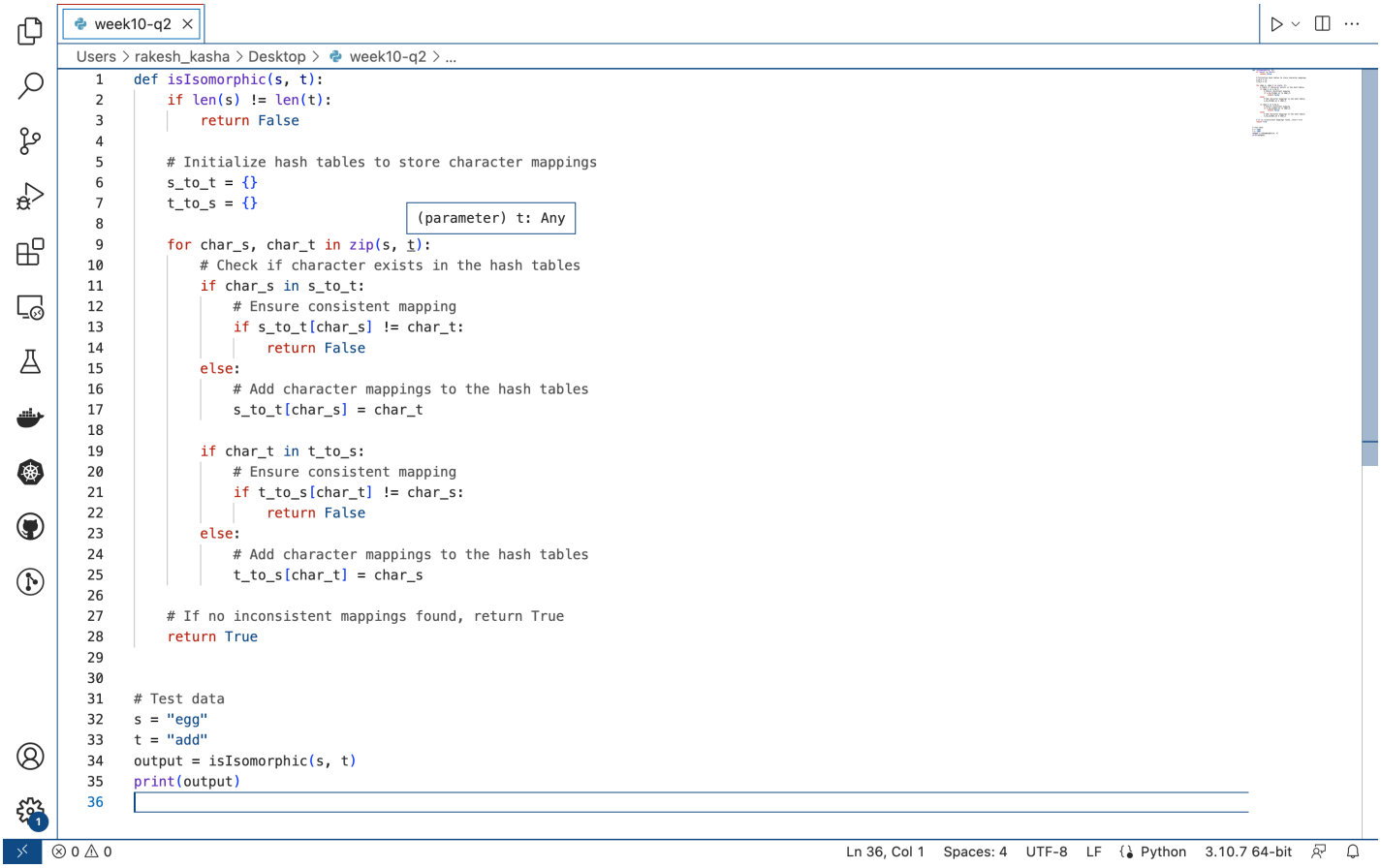
{'a' -> 'e', 'd' -> 'g'}

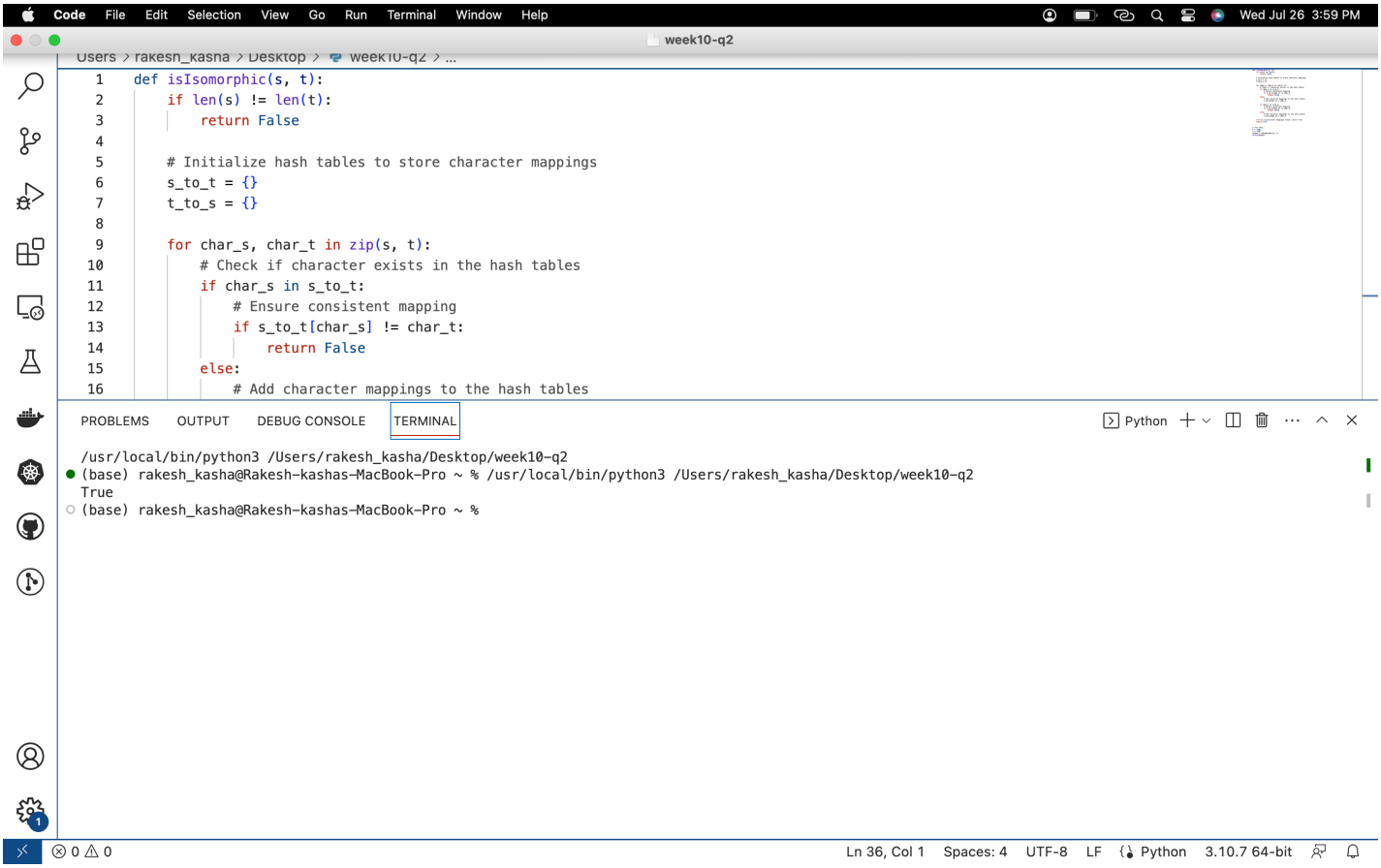
Now, we check if the mappings are consistent and one-to-one:

For each character in s, check if its mapping in t is correct.

For each character in t, check if its mapping in s is correct.

Therefore, the output for the given test data 'Input: s = "egg", t = "add"; Output: true' is True.


week10-q2
Users > rakesh_kasha > Desktop > week10-q2 > ...
(parameter) t: Any
def isIsomorphic(s, t):
if len(s) != len(t):
return False
# Initialize hash tables to store character mappings
s_to_t = {}
t_to_s = {}
for char_s, char_t in zip(s, t):
# Check if character exists in the hash tables
if char_s in s_to_t:
# Ensure consistent mapping
if s_to_t[char_s] != char_t:
return False
else:
# Add character mappings to the hash tables
s_to_t[char_s] = char_t
if char_t in t_to_s:
# Ensure consistent mapping
if t_to_s[char_t] != char_s:
return False
else:
# Add character mappings to the hash tables
t_to_s[char_t] = char_s
# If no inconsistent mappings found, return True
return True
# Test data
s = "egg"
t = "add"
output = isIsomorphic(s, t)
print(output)
0 0
Ln 36, Col 1
Spaces: 4
UTF-8
LF
Python
3.10.7 64-bit


Code File Edit Selection View Go Run Terminal Window Help
Wed Jul 26 3:59 PM
week10-q2
Users > rakesh_kasha > Desktop > week10-q2 > ...
def isIsomorphic(s, t):
if len(s) != len(t):
return False
# Initialize hash tables to store character mappings
s_to_t = {}
t_to_s = {}
for char_s, char_t in zip(s, t):
# Check if character exists in the hash tables
if char_s in s_to_t:
# Ensure consistent mapping
if s_to_t[char_s] != char_t:
return False
else:
# Add character mappings to the hash tables
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Python
/usr/local/bin/python3 /Users/rakesh_kasha/Desktop/week10-q2
(base) rakesh_kasha@Rakesh-kashas-MacBook-Pro ~ % /usr/local/bin/python3 /Users/rakesh_kasha/Desktop/week10-q2
True
(base) rakesh_kasha@Rakesh-kashas-MacBook-Pro ~ %
0 0
Ln 36, Col 1
Spaces: 4
UTF-8
LF
Python
3.10.7 64-bit