Practice Quiz: Strings

TOTAL POINTS 2

1. The is_palindrome function checks if a string is a palindrome. A palindrome is a string that can
   be equally read from left to right or right to left, omitting blank spaces, and ignoring
   capitalization. Examples of palindromes are words like kayak and radar, and phrases like
   "Never Odd or Even". Fill in the blanks in this function to return True if the passed string is a
   palindrome, False if not.

```
1   def is_palindrome(input_string):
2       # We'll create two strings, to compare them
3       new_string = ""
4       reverse_string = ""
5       # Traverse through each letter of the input string
6       for i in input_string:
7           # Add any non-blank letters to the
8           # end of one string, and to the front
9           # of the other string.
10          if input_string == input_string.lower():
11              new_string = input_string.replace(' ', '')
12              reverse_string =''.join(reversed(new_string))
13      # Compare the strings
14      if reverse_string == new_string:
15          return True
16      return False
17
18  print(is_palindrome("Never Odd or Even")) # Should be True
19  print(is_palindrome("abc")) # Should be False
20  print(is_palindrome("kayak")) # Should be True
```

Run

Reset

```
True
False
True
```

2. Using the format method, fill in the gaps in the convert_distance function so that it returns the
   phrase "X miles equals Y km", with Y having only 1 decimal place. For example,
   convert_distance(12) should return "12 miles equals 19.2 km".

```
1   def convert_distance(miles):
2       km = miles * 1.6
3       result = "{} miles equals {:.1f} km".format(miles, km)
4       return result
5
6   print(convert_distance(12)) # Should be: 12 miles equals 19.2 km
7   print(convert_distance(5.5)) # Should be: 5.5 miles equals 8.8 km
8   print(convert_distance(11)) # Should be: 11 miles equals 17.6 km
```

Run

Reset

```
12 miles equals 19.2 km
5.5 miles equals 8.8 km
11 miles equals 17.6 km
```