Write a Pandas program to find the index of a given substring of a DataFrame column.

PROGRAM:

import pandas as pd

# Create a sample DataFrame

data = {'Column1': ['apple', 'banana', 'orange', 'grape', 'kiwi']}

df = pd.DataFrame(data)

# Function to find the index of a given substring in a DataFrame column

def find\_substring\_index(dataframe, column\_name, substring):

# Convert the column to lowercase and find the index

index = dataframe[dataframe[column\_name].str.lower().str.contains(substring.lower())].index.tolist()

return index

# Specify the substring to search for

substring\_to\_find = 'an'

# Find the index of the substring in the specified column

result\_index = find\_substring\_index(df, 'Column1', substring\_to\_find)

# Display the result

print(f"Index of substring '{substring\_to\_find}' in Column1: {result\_index}")

OUTPUT:

