

#3

```
def check_same_country():  
    # Lists of cities grouped by country  
    australia = ["Sydney", "Melbourne",  
"Brisbane", "Perth"]  
    uae = ["Dubai", "Abu Dhabi", "Sharjah",  
"Ajman"]  
    india = ["Mumbai", "Bangalore",  
"Chennai", "Delhi"]  
  
    # Ask the user to input two city names  
    city1 = input("Enter the first city: ").strip()  
    city2 = input("Enter the second city:  
").strip()  
  
    # Determine the country of the first city  
    if city1 in australia:  
        country1 = "Australia"  
    elif city1 in uae:  
        country1 = "UAE"
```

```
elif city1 in india:
```

```
    country1 = "India"
```

```
else:
```

```
    print(f"{city1} is not in the list.")
```

```
    return
```

```
# Determine the country of the second  
city
```

```
if city2 in australia:
```

```
    country2 = "Australia"
```

```
elif city2 in uae:
```

```
    country2 = "UAE"
```

```
elif city2 in india:
```

```
    country2 = "India"
```

```
else:
```

```
    print(f"{city2} is not in the list.")
```

```
    return
```

```
# Compare the countries of the two cities
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```
if country1 == country2:
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```
    print(f"Both cities are in {country1}")
```

else:

```
    print("They don't belong to the same  
country.")
```

Call the function

```
check_same_country()
```