Write a python program to convert ['1','2','4',['5','9','3']'7','0'] to ['1','2','4','5','9','3','7','0'].

Example Input

data = ['1', '2', '4', ['5', '9', '3'], '7', '0']

✅ **Expected Output**

['1', '2', '4', '5', '9', '3', '7', '0']

1️⃣ **Using a simple loop (recommended for beginners)**

data = ['1', '2', '4', ['5', '9', '3'], '7', '0']

flattened = []

for item in data:

   if isinstance(item, list):   # check if element is a list

      flattened.extend(item)

   else:

     flattened.append(item)

print(flattened)

✅ **Output:**

['1', '2', '4', '5', '9', '3', '7', '0']

2️⃣ **Solution — using only for loops**

data = ['1', '2', '4', ['5', '9', '3'], '7', '0']

flattened = []

for i in data:

   # check if it's a list by comparing type directly

```python
    if type(i) == list:

        for j in i:      # loop through inner list

            flattened += [j]   # append manually

    else:

        flattened += [i]


print(flattened)
```

✅ **Output**

```
['1', '2', '4', '5', '9', '3', '7', '0']
```