

Write a Python program to find the sum of all numeric values present in a nested dictionary or list structure.

The program should handle any combination of dictionaries, lists, and numeric values.

```
def sum_values(data):  
    total = 0  
  
    if isinstance(data, dict):  
        for value in data.values():  
            total += sum_values(value)  
  
    elif isinstance(data, list):  
        for item in data:  
            total += sum_values(item)  
  
    elif isinstance(data, (int, float)):  
        total += data  
  
    return total  
  
data = {  
    "p": {"a": 100, "b": [10, 20, 30]},  
    "q": 5,  
    "z": {"c": 200, "d": {"x": 40, "y": [50, 60]}}  
}  
  
print("Sum of all values:", sum_values(data))
```

Expected Output:



Sum of all values: 515

Explanation:

The program recursively:

Traverses dictionaries using `data.values()`

Traverses lists using a loop

Adds numeric (int or float) values to total

So total = $100 + 10 + 20 + 30 + 5 + 200 + 40 + 50 + 60 = 515$

