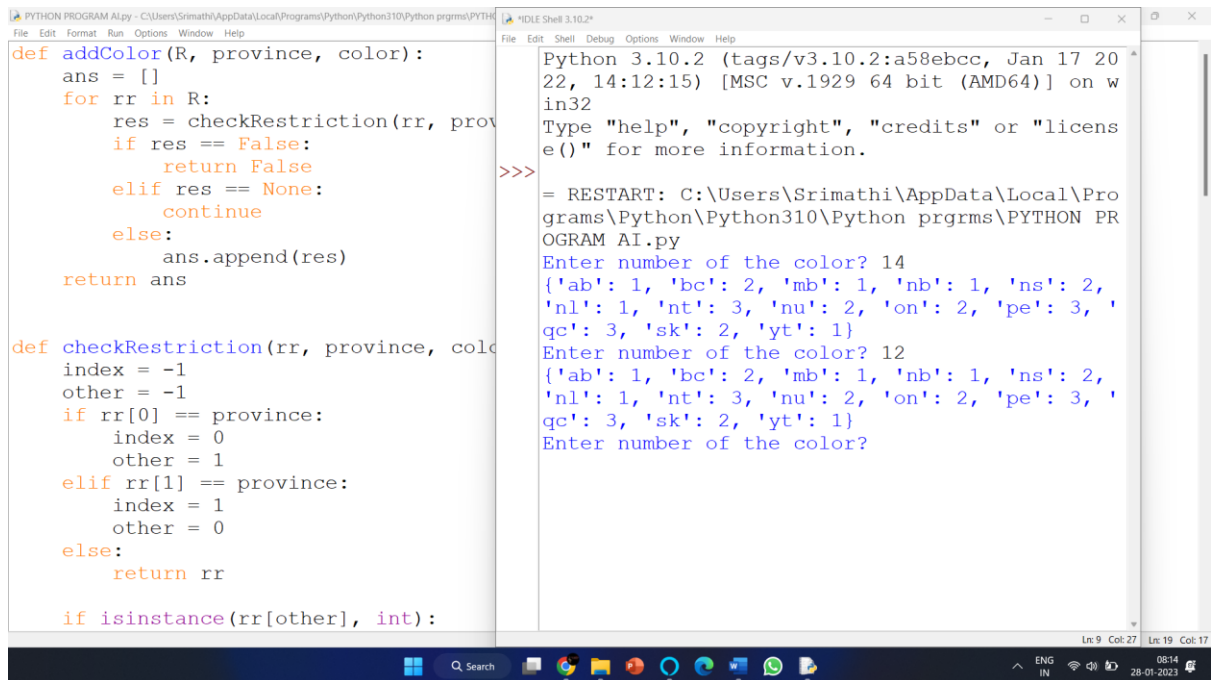


Map Coloring to implement CSP:



The image shows a screenshot of a Python IDE with two windows. The left window displays the source code for a map coloring program, and the right window shows the program's execution output.

Source Code (Left Window):

```
def addColor(R, province, color):
    ans = []
    for rr in R:
        res = checkRestriction(rr, province, color)
        if res == False:
            return False
        elif res == None:
            continue
        else:
            ans.append(res)
    return ans

def checkRestriction(rr, province, color):
    index = -1
    other = -1
    if rr[0] == province:
        index = 0
        other = 1
    elif rr[1] == province:
        index = 1
        other = 0
    else:
        return rr
    if isinstance(rr[other], int):
```

Execution Output (Right Window):

```
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\Srimathi\AppData\Local\Programs\Python\Python310\Python prgrms\PYTHON PROGRAM AI.py
Enter number of the color? 14
{'ab': 1, 'bc': 2, 'mb': 1, 'nb': 1, 'ns': 2, 'nl': 1, 'nt': 3, 'nu': 2, 'on': 2, 'pe': 3, 'qc': 3, 'sk': 2, 'yt': 1}
Enter number of the color? 12
{'ab': 1, 'bc': 2, 'mb': 1, 'nb': 1, 'ns': 2, 'nl': 1, 'nt': 3, 'nu': 2, 'on': 2, 'pe': 3, 'qc': 3, 'sk': 2, 'yt': 1}
Enter number of the color?
```

The taskbar at the bottom shows the Windows Start button, a search bar, and several application icons. The system clock indicates the time is 08:14 on 28-01-2023.