

Task 1

If we keep using nested lists things will get hard to read and keep track of player(0) being the Id, player(1) being wins and so on. If we keep adding things with lists the code becomes not as simple so we must find a way to amend these problems to solve the greater problem at hand.

Task 2

-No Group :(

The output was {'apple': 50, 'banana': 30, 'orange': 20}

Task 5

I added Kiwi with a value of 60 and cherry with a value of 40

Task 6

After added these and printing the output was {'apple': 50, 'banana': 30, 'orange': 20, 'kiwi': 60, 'cherry': 40}

Task 8

```
PS C:\Users\jaden\Desktop\JadenPython> & C:/Users/jaden/Des
Enter city name: Toronto
Enter country name: Canada
Enter the year: 2024
{'city': 'Toronto', 'country': 'Canada', 'year': '2024'}
PS C:\Users\jaden\Desktop\JadenPython> |
```

Task 9

```
Enter city name: Hamburg
Enter country name: Germany
Enter the year: 2018
[{'city': 'Hamburg', 'country': 'Germany', 'year': '2018'}, {'city': 'Hamburg', 'country': 'Germany', 'year': '2018'}]
```

Task 10

```
Enter city name: & C:/Users/jaden/Desktop/JadenPython/.venv/Scripts/python.exe c:/Users/jaden/Desktop/JadenPython/Lab7.py/better_twoplaces.py
Enter country name: Germany
Enter the year: 2017
[{'city': '& C:/Users/jaden/Desktop/JadenPython/.venv/Scripts/python.exe c:/Users/jaden/Desktop/JadenPython/Lab7.py/better_twoplaces.py', 'country': 'Germany', 'date': '2017'}]
Enter city name: Hamburg
Enter country name: Germany
Enter the year: 2018
[{'city': '& C:/Users/jaden/Desktop/JadenPython/.venv/Scripts/python.exe c:/Users/jaden/Desktop/JadenPython/Lab7.py/better_twoplaces.py', 'country': 'Germany', 'date': '2017'}, {'city': 'Hamburg', 'country': 'Germany', 'date': '2018'}]
PS C:\Users\jaden\Desktop\JadenPython> |
```

Task 11

```
Enter city name: Hamburg
Enter country name: Germany
How many times you visited?5
Enter city name: Lisbon
Enter country name: Portugal
How many times you visited?1
Enter the year of the 1 time you went there: 2013
[{'city': 'Lisbon', 'country': 'Portugal', 'dates': 2013}]
PS C:\Users\jaden\Desktop\JadenPython>
```

Task 12

```
Enter city name: Lisbon
Enter country name: Portugal
How many times you visited?1
Enter city name: Hamburg
Enter country name: Germany
How many times you visited?5
```

```
[{'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013']}],
Enter the year of the 2 time you went there: 2014
[{'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014']}, {'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014']}],
Enter the year of the 3 time you went there: 2016
[{'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014', '2016']}, {'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014', '2016']}, {'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014', '2016']}],
Enter the year of the 4 time you went there: 2017
[{'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014', '2016', '2017']}, {'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014', '2016', '2017']}, {'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014', '2016', '2017']}, {'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014', '2016', '2017']}],
Enter the year of the 5 time you went there: 2018
[{'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014', '2016', '2017', '2018']}, {'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014', '2016', '2017', '2018']}, {'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014', '2016', '2017', '2018']}, {'city': 'Hamburg', 'country': 'Germany', 'dates': ['2013', '2014', '2016', '2017', '2018']}],
In 18, Col 5, Spaces: 4, UTF-8, CRLF, {} Python 65
```

Task 15

The root of the problem comes from using `.copy()` which works fine now but when adding more code to further extend the dicts it can become a little buggy. This is where `deepcopy()` would be an improvement on the code because it is more future proof

Rest of tasks given with code