

Sets and Dictionaries

1. Create a function to add dictionary to another one.

```
Dict 1 : {'A': 10, 'B': 20}
Dict 2 : {'C': 30, 'D': 40}
After merge Fuction
Dict 1 : {'A': 10, 'B': 20, 'C': 30, 'D': 40}
Dict 2 : {'C': 30, 'D': 40}
```

2. Use dictionaries to find the average score

```
score = {"Tony" : [90,65,78,81],
         "Tuu" : [25,75,25,53],
         "Anutin" : [64,76,28,55]}
```

```
Name : Tony      score average : 78.50
Name : Tuu       score average : 44.50
Name : Anutin    score average : 55.75
```

3. Find the distance between start point to the destination.

```
node = {"A": ["C",110],
        "B": ["D",840],
        "C": ["E",450],
        "D": [None,0],
        "E": [None,0]}
```

```
Enter Node: A
total distance : 560.00 km.
```

```
Enter Node: E
```

```
total distance : 0.00 km.
```

4. Find powerset of any set.

Ex: Set [(1,2)]

Ans: [], [1], [2], [1,2]

5. Convert list to list of dictionaries

The original list : ['A', 1, 'B', 2, 'C', 3]

New dictionary list : [{'Name': 'A', 'Number': 1}, {'Name': 'B', 'Number': 2}, {'Name': 'C', 'Number': 3}]