**TASK D**

(D) Repeat task (D) for another different 10 classes. You get another 7 average accuracy.

Plot them on one curve in the same figure as in task (C). Do you see some trend?

**REPORT**

Class: [ 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]

1. train=5 test=34

Accuracy: 75.0

2. train=10 test=29

Accuracy: 76.55172413793103

3. train=15 test=24

Accuracy: 76.25

4. train=20 test=19

Accuracy: 79.47368421052632

5. train=25 test=24

Accuracy: 82.85714285714286

6. train=30 test=9

Accuracy: 83.33333333333334

7. train=35 test=4

Accuracy: 80.0

The trend that we see from the splits given are mentioned above

We can figure the lowest accuracy is for

train=5 test=34

Accuracy: 73.82352941176471

We can figure the highest accuracy is for

train=30 test=9

Accuracy: 83.33333333333334

The change is class gives a slightly greater accuracy with 83.33

**For Reference:**

CLASS = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

1. train=5 test=34

Accuracy: 73.82352941176471

2. train=10 test=29

Accuracy: 82.41379310344827

3. train=15 test=24

Accuracy: 77.91666666666667

4. train=20 test=19

Accuracy: 80.52631578947368

5. train=25 test=24

Accuracy: 80.0

6. train=30 test=9

Accuracy: 81.11111111111111

7. train=35 test=4

Accuracy: 82.5