

2022 sujet 40

Exercice 1

```
def recherche(elt, tab):
    s = []
    for i in range(len(tab)):
        if elt == tab[i]:
            s.append(i)
    return s
```

Exercice 2

```
resultats = {'Dupont':{'DS1' : [15.5, 4],
                      'DM1' : [14.5, 1],
                      'DS2' : [13, 4],
                      'PROJET1' : [16, 3],
                      'DS3' : [14, 4]},
             'Durand':{'DS1' : [6 , 4],
                      'DM1' : [14.5, 1],
                      'DS2' : [8, 4],
                      'PROJET1' : [9, 3],
                      'IE1' : [7, 2],
                      'DS3' : [8, 4],
                      'DS4' : [15, 4]}}
```

```
def moyenne(nom):
    if nom in resultats:
        notes = resultats[nom]
        total_points = 0
        total_coefficients = 0
        for valeurs in notes.values():
            note , coefficient = valeurs
            total_points = total_points + note * coefficient
            total_coefficients = total_coefficients + coefficient
        return round( total_points / total_coefficients , 1 )
    else:
        return -1
```