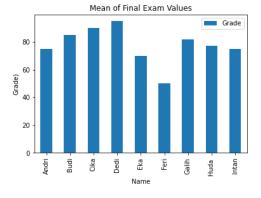
```
In [1]: import matplotlib.pyplot as pyplot
        import pandas
        import csv
        # No 1
        list_siswa = []
        with open('DataSiswa.csv') as item:
           reader = csv.DictReader(item)
            for row in reader:
               if int(row['Grade']) > 80:
       list_siswa.append(row)
print("******** List Disctonary Siswa Who Have Grade > 80 *********")
        print(list_siswa)
        print("")
        # No 2
        listSiswa = pandas.read_csv('DataSiswa.csv')
        listSiswa = listSiswa.assign( Description = '' )
       print(listSiswa)
        print("")
        data_group = listSiswa.groupby('Name')[ [ 'Grade'] ].mean().astype(int)
        data_group.plot(kind='bar')
       pyplot.xlabel('Name')
pyplot.ylabel('Grade)')
        pyplot.title('Mean of Final Exam Values')
        pyplot.show()
```

[{'Student Number': '102', 'Name': 'Budi', 'Subject': 'Programming Basic', 'Grade': '90'}, {'Student Number': '103', 'Name': 'Cika', 'Subject': 'Programming Basic', 'Grade': '100'}, {'Student Number': '104', 'Name': 'Dedi', 'Subject': 'Programming Basic', 'Grade': '100'}, {'Student Number': '104', 'Name': 'Dedi', 'Subject': 'Web Programming', 'Grade': '90'}, {'Student Number': '105', 'Name': 'Eka', 'Subject': 'Web Programming', 'Grade': '90'}, {'Student Number': '107', 'Name': 'Galih', 'Subject': 'Web Programming', 'Grade': '85'}, {'Student Number': '109', 'Name': 'Intan', 'Subject': 'Web Programming', 'Grade': '90'}]

```
******* List Siswa With Description *******
    Student Number
                     Name
                                      Subject Grade Description
0
               101
                     Andri
                            Programming Basic
                                                    80
                                                               PASS
1
               102
                      Budi
                            Programming Basic
                                                    90
                                                               PASS
                                                               PASS
2
               103
                      Cika
                            Programming Basic
                                                   100
3
                                                               PASS
               104
                      Dedi
                            Programming Basic
                                                   100
               105
                      Eka
                            Programming Basic
                                                               FAIL
                                                    50
                106
                      Feri
                            Programming Basic
                                                               FAIL
                     Galih
                            Programming Basic
                                                    70
                                                               PASS
                108
                     Huda
                             Programming Basic
                                                    70
                                                               PASS
8
               109
                     Intan
                            Programming Basic
                                                    60
                                                               FAIL
                              Web Programming
Web Programming
9
               101
                     Andri
                                                    70
                                                               PASS
10
               102
                      Budi
                                                    80
                                                               PASS
                                                               PASS
11
               103
                      Cika
                              Web Programming
                                                    80
                104
                              Web Programming
                                                               PASS
12
                      Dedi
                                                    90
13
                105
                       Eka
                              Web Programming
                                                    90
                                                               PASS
                106
                      Feri
                               Web Programming
                                                    60
                                                               FAIL
15
                107
                     Galih
                              Web Programming
                                                    95
                                                               PASS
16
               108
                     Huda
                              Web Programming
                                                    85
                                                               PASS
17
               109
                     Intan
                              Web Programming
                                                    90
                                                               PASS
```



In []: