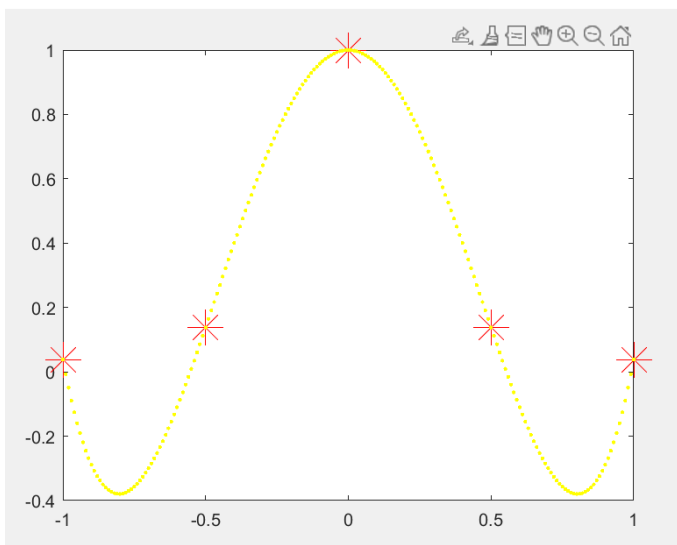


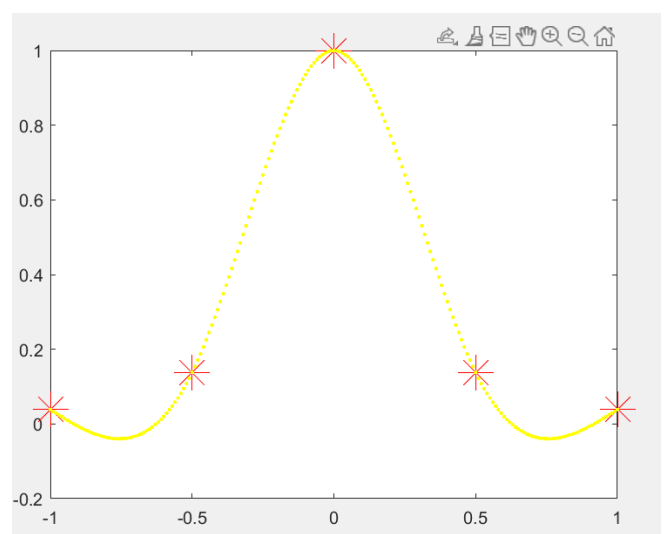
Q1 Lagrange polynomial

```
output1 - Notepad
File Edit View
-0.8,-0.37934
-0.2,0.83421
0.2,0.83421
0.8,-0.37934
```



Natural cubic spline

```
output1 - Notepad
File Edit View
-0.8,-0.03634
-0.2,0.77157
0.2,0.77157
0.8,-0.03634
```

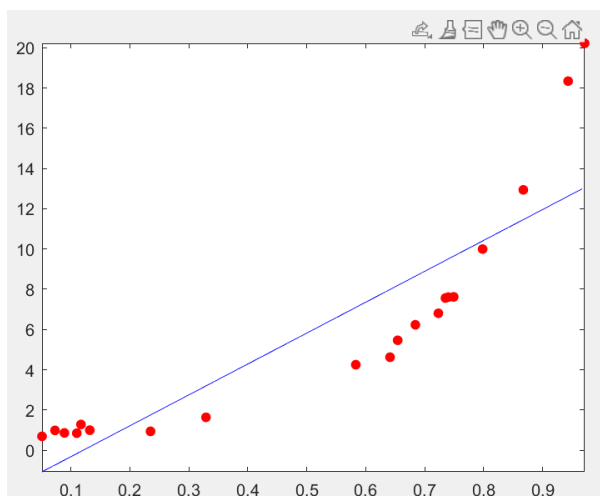


Q2

N = 1

```
output_least - Notepad
File Edit View

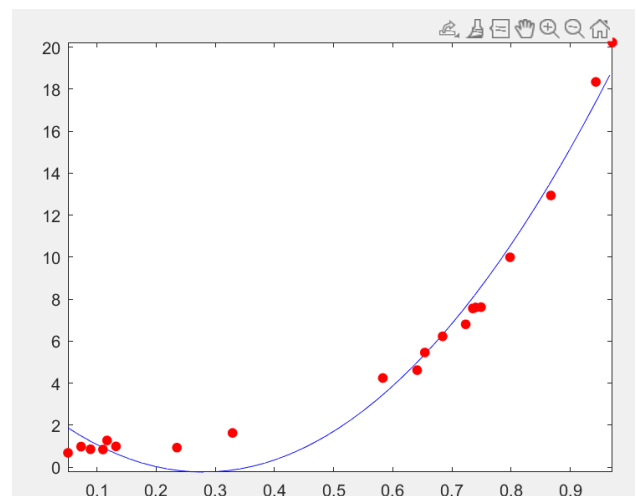
Coefficient are :
-1.859589
15.363438
R-sq is : 0.866552
```



N=2

```
output_least - Notepad
File Edit View

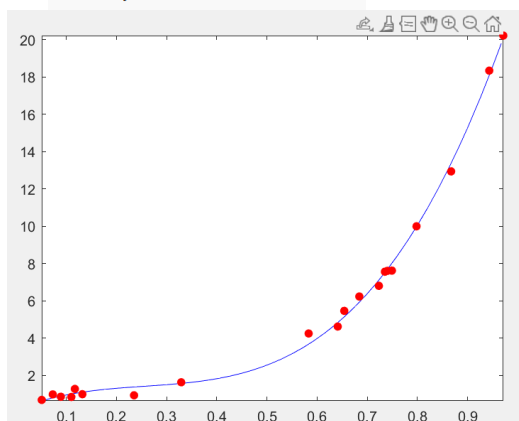
Coefficient are :
2.917007
-22.465799
40.109322
R-sq is : 0.988643
```



N= 3

```
output_least - Notepad
File Edit View

Coefficient are :
0.154966
11.192300
-36.585222
47.596476
R-sq is : 0.998729
```



N=4

```
output_least - Notepad
File Edit View

Coefficient are :
1.027082
-3.744007
28.959217
-52.383390
49.055647
R-sq is : 0.999186
```

