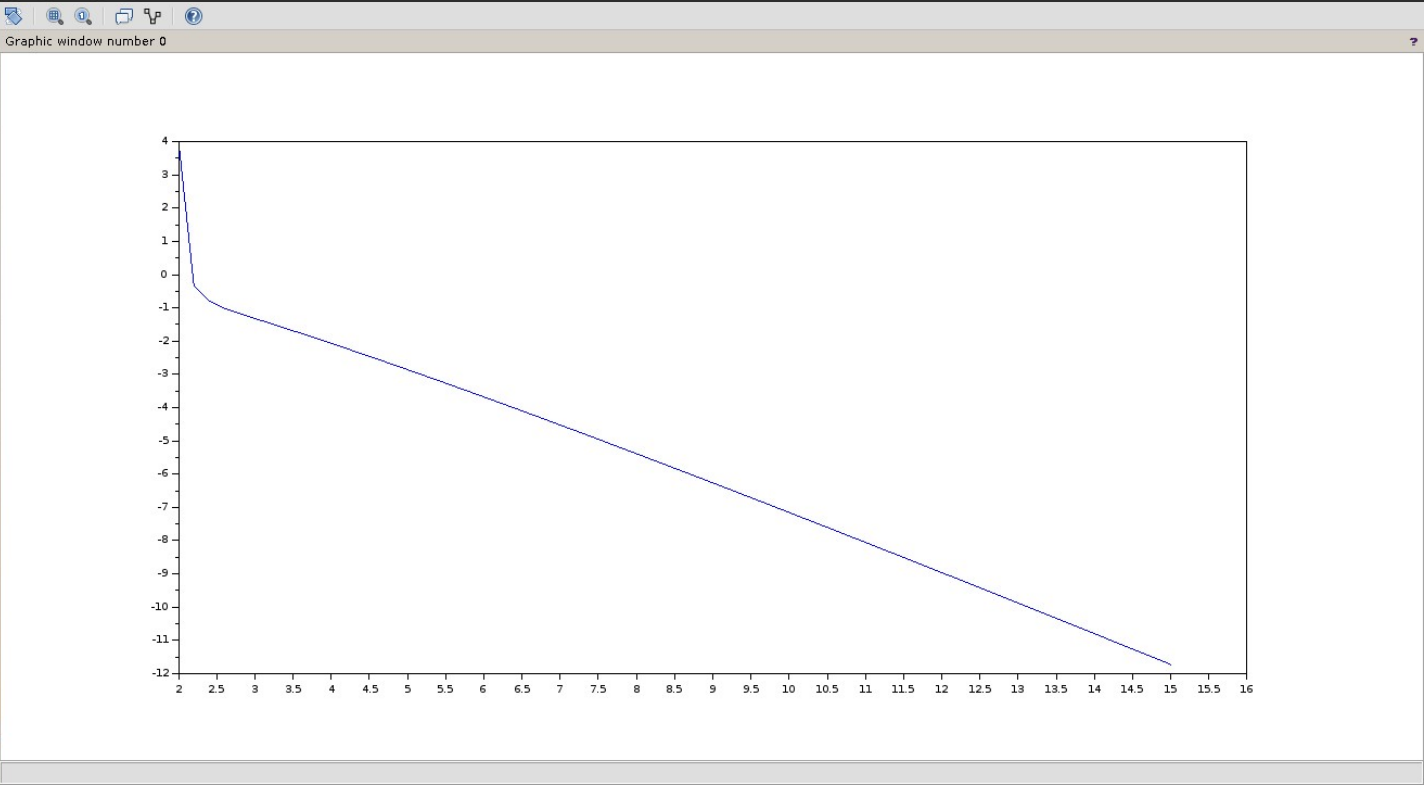
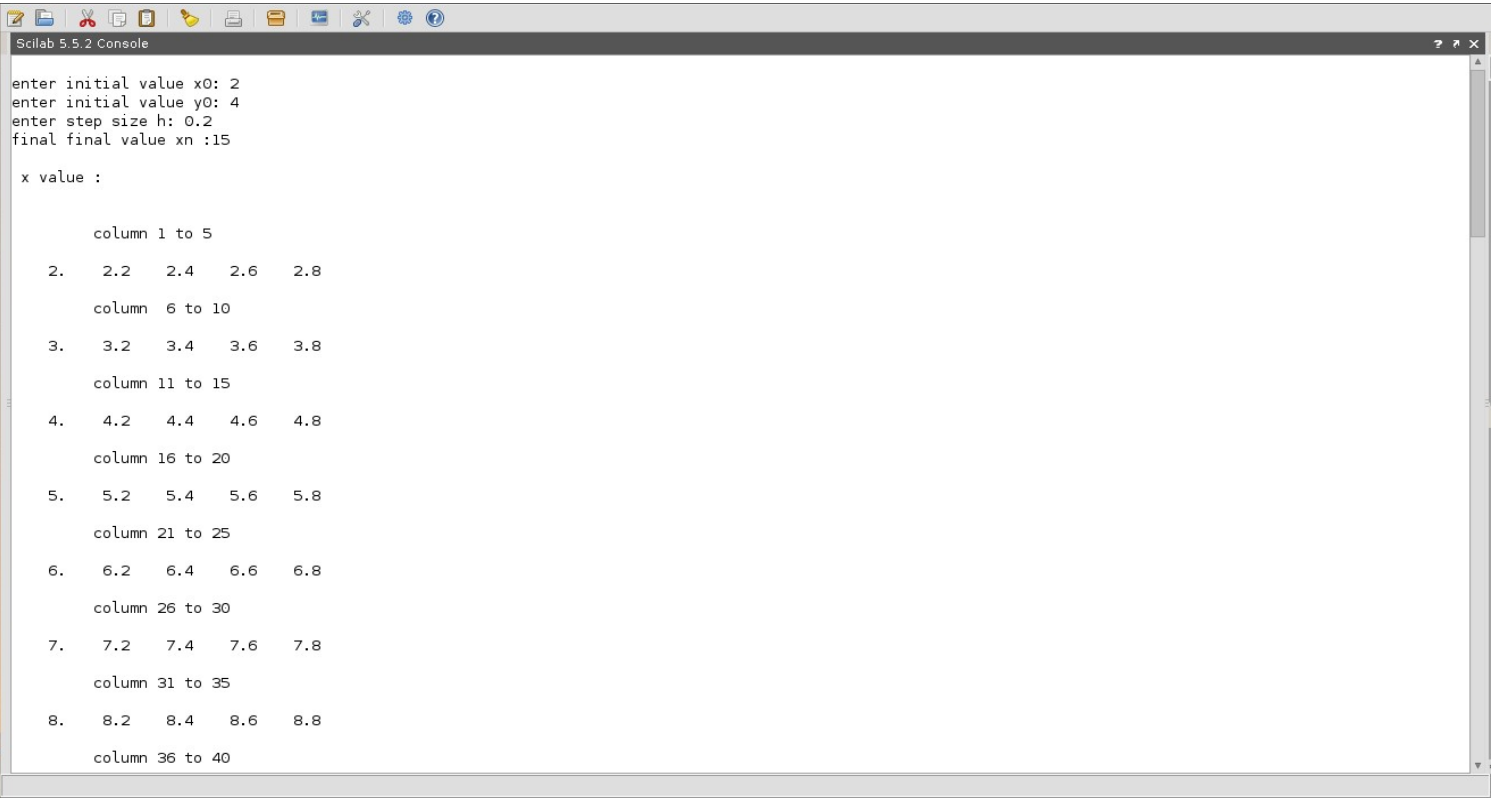


# Experiment 9



# Experiment 7

```
Scilab 5.5.2 Console
iteration    x1      x2      z=(x1+x2)/2    f(z)
1      2.000000    3.000000    2.500000    2.125000
2      2.000000    2.500000    2.250000    -1.859375
3      2.250000    2.500000    2.375000    0.021484
4      2.250000    2.375000    2.312500    -0.946045
5      2.312500    2.375000    2.343750    -0.469147
6      2.343750    2.375000    2.359375    -0.225559
7      2.359375    2.375000    2.367188    -0.102471
8      2.367188    2.375000    2.371094    -0.040602
9      2.371094    2.375000    2.373047    -0.009586
10     2.373047    2.375000    2.374023    0.005942
11     2.373047    2.374023    2.373535    -0.001823
12     2.373535    2.374023    2.373779    0.002059
13     2.373535    2.373779    2.373657    0.000118
14     2.373535    2.373657    2.373596    -0.000853
15     2.373596    2.373657    2.373627    -0.000368
16     2.373627    2.373657    2.373642    -0.000125
17     2.373642    2.373657    2.373650    -0.000004
the solution of this equation after 18 iteration is 2.373650
-->
```

```
Scilab 5.5.2 Console
Warning : redefining function: f          . Use funcprot(0) to avoid this message
Warning : redefining function: g          . Use funcprot(0) to avoid this message
iteration    a      x0      f(z)
0      10.500000    9.586953    -139715.526795
1      9.586953    8.681402    -51154.176639
2      8.681402    7.784691    -18710.607885
3      7.784691    6.898570    -6834.679085
4      6.898570    6.025344    -2492.223867
5      6.025344    5.167943    -906.810021
6      5.167943    4.329783    -329.124287
7      4.329783    3.514617    -119.033049
8      3.514617    2.728092    -42.665486
9      2.728092    1.985505    -14.862809
10     1.985505    1.329538    -4.785789
11     1.329538    0.839945    -1.278010
12     0.839945    0.584668    -0.215229
13     0.584668    0.521280    -0.010748
14     0.521280    0.517768    -0.000032
15     0.517768    0.517757    -0.000000
16     0.517757    0.517757    0.000000
the solution of this equation after 17 iteration is 0.517757
-->
```

## experiment 5

(A)

```
Scilab 5.5.2 Console

enter the number of operations : 3

enter the values of x :
0
1
2

enter the values y:
0
1
4

- 0.3333333
2.

-->
```

```
Scilab 5.5.2 Console

parabola fitting
enter the number of operations : 3

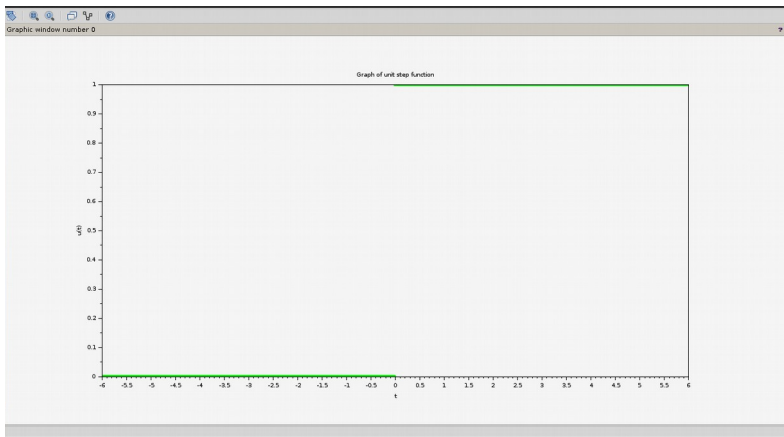
enter the values of x :
1
2
3

enter the values y:
1
4
9

- 1.705D-13
0.
1.

-->
```

## experiment 6



```
Scilab 5.5.2 Console

Enter Lower Limit : 0
Enter Upper Limit : 6
Enter number of sum intervals : 6

0. 1.
1. 0.5
2. 0.2
3. 0.1
4. 0.0588235
5. 0.0384615
6. 0.0270270

Integration by Trapezoidal Rule is :

1.4107986

-->
```

exp 8

```
Scilab 5.5.2 Console
Enter Lower Limit : 0
Enter Upper Limit : 6
Enter number of sum intervals : 6

0.    1.
1.    0.5
2.    0.2
3.    0.1
4.    0.0588235
5.    0.0384615
6.    0.0270270

Integration by Simpson(3/8) Rule is :

1.3570808

-->
```

```
Scilab 5.5.2 Console
Enter Lower Limit : 0
Enter Upper Limit : 3.14
Enter number of sum intervals : 10

0.    1.
0.314  0.9102527
0.628  0.7171626
0.942  0.5298395
1.256  0.3879674
1.57   0.2886086
1.884  0.2198065
2.198  0.1714912
2.512  0.1367962
2.826  0.1112808
3.14   0.0920844

Integration by Simsons(1/3) Rule is :

1.2624308

-->
```