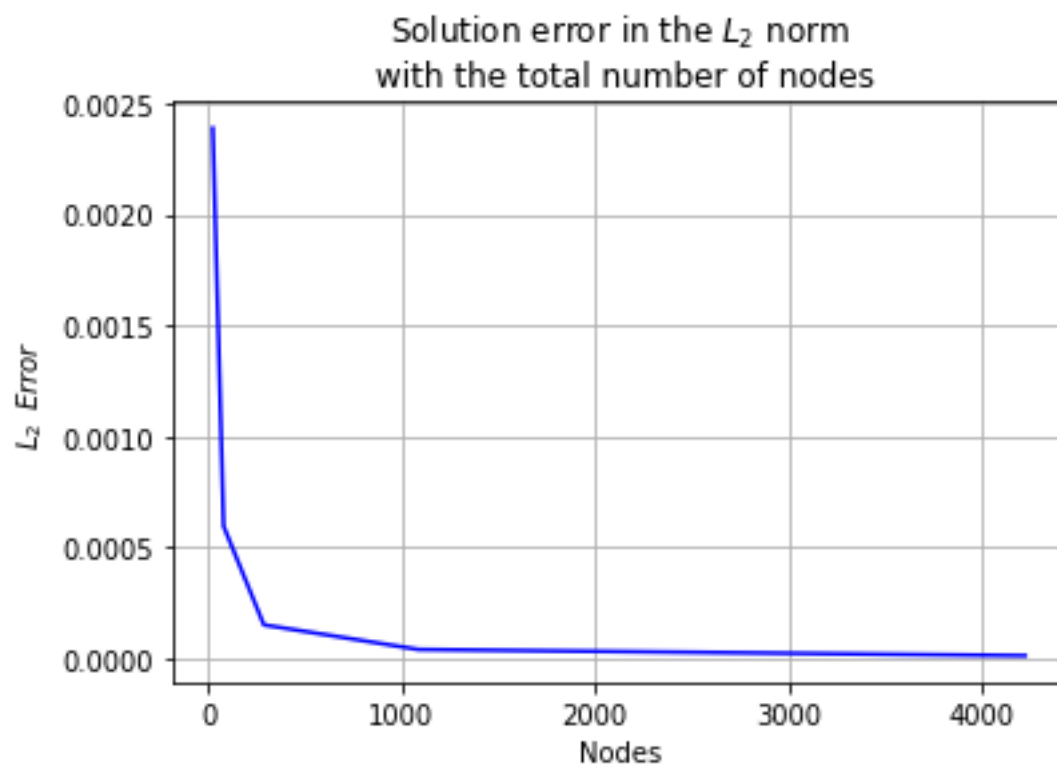


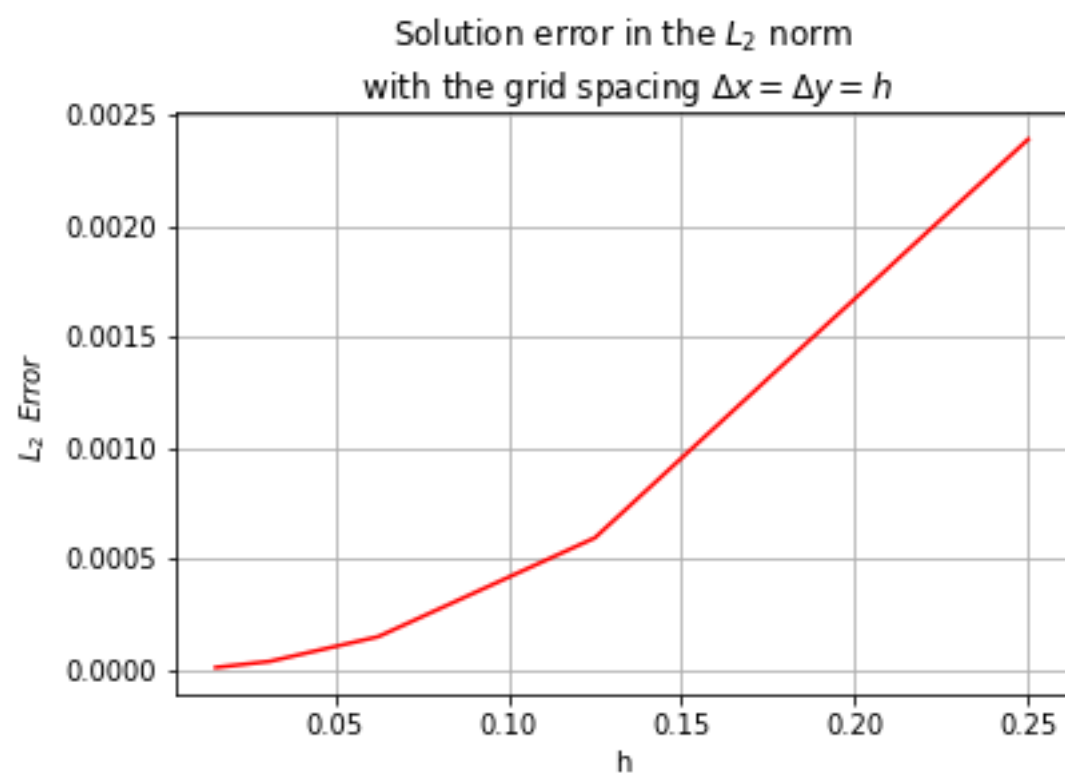
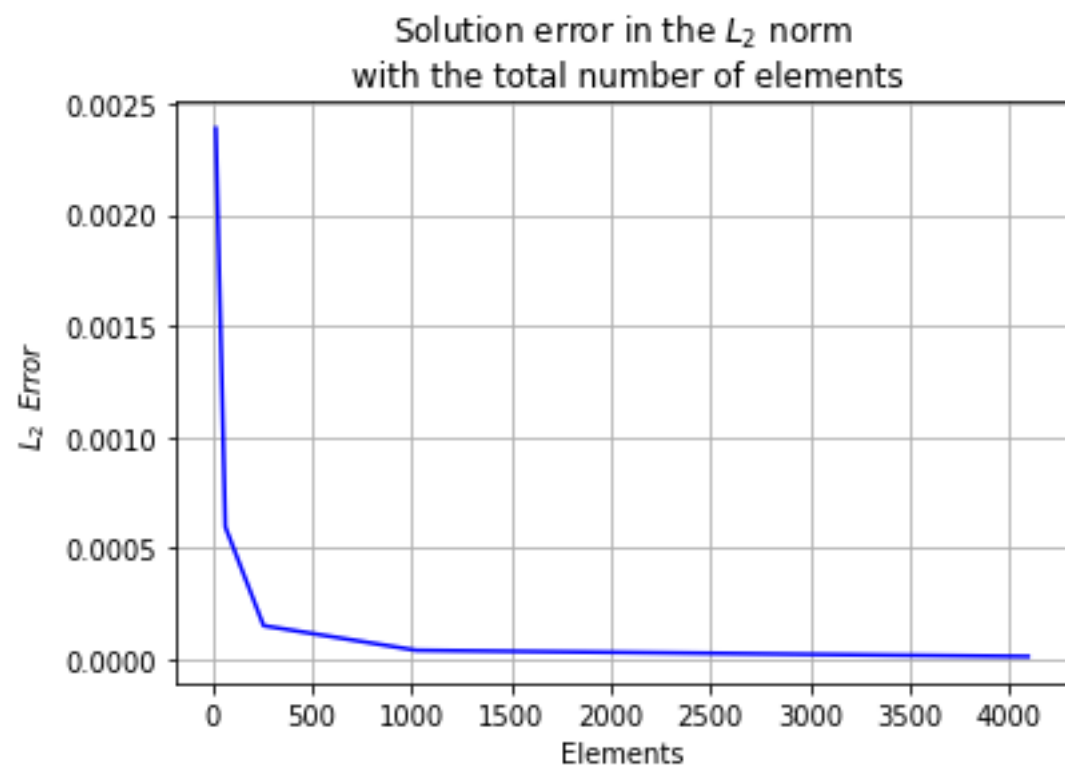
Python 3.7.0 (default, Jun 28 2018, 07:39:16)  
Type "copyright", "credits" or "license" for more information.

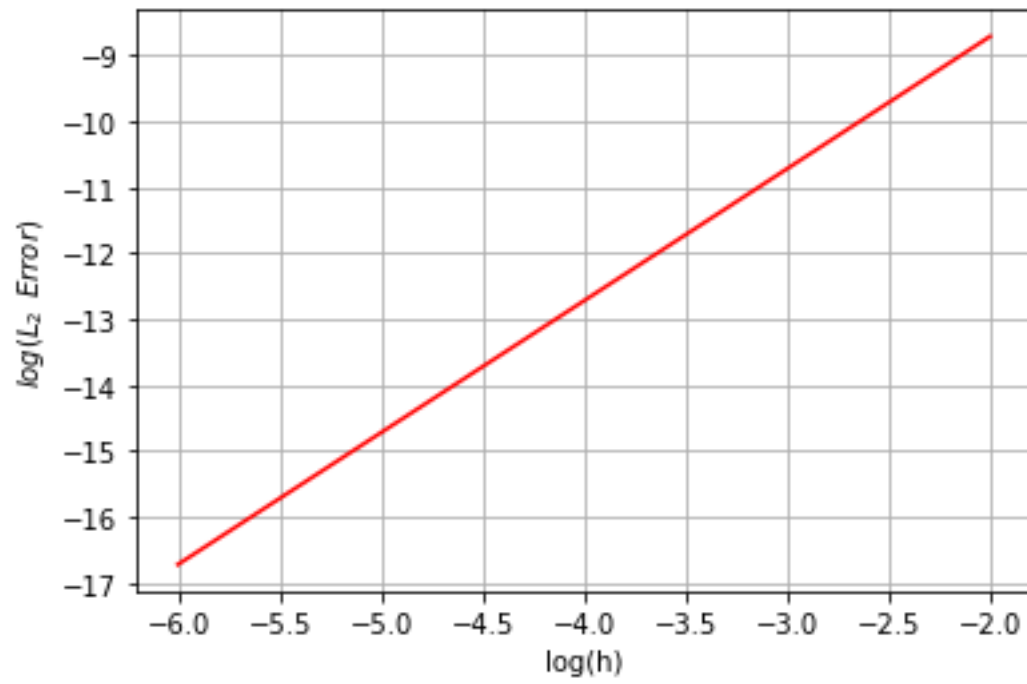
IPython 7.8.0 -- An enhanced Interactive Python.

```
In [1]: runfile('/Users/maged/Documents/GitHub/Poisson2D_FEM/  
error_plot.py', wdir='/Users/maged/Documents/GitHub/  
Poisson2D_FEM')
```

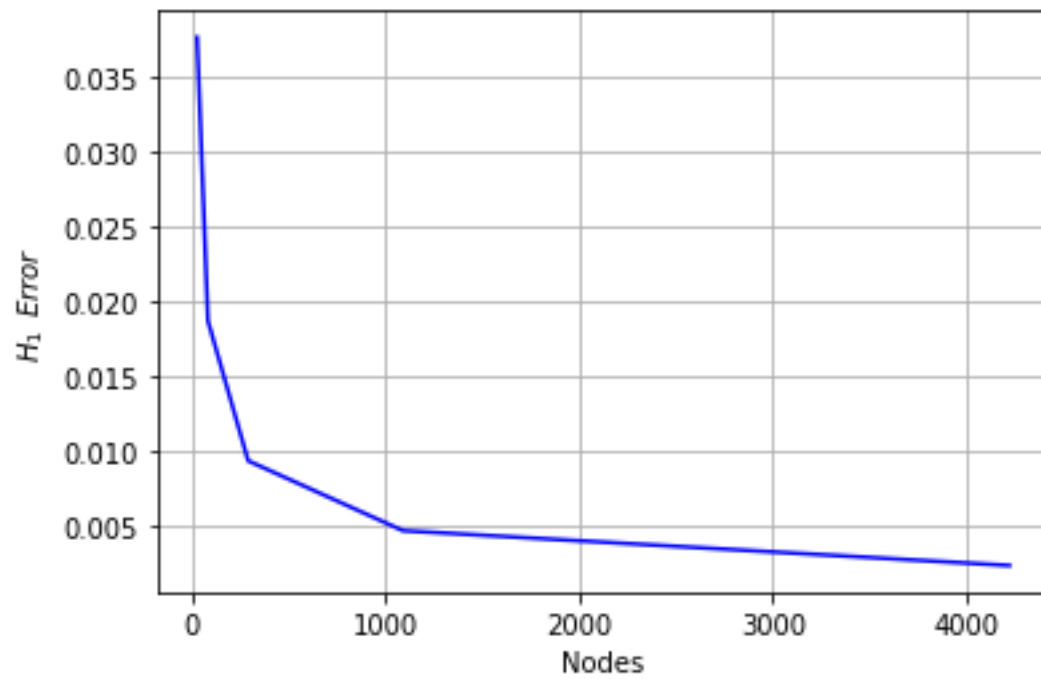
Total Nodes L2_error	Total Elements H1_error	h
i= 4		
25	16	0.250000
0.00238879	0.0376132	
i= 8		
81	64	0.125000
0.000593419	0.0186772	
i= 16		
289	256	0.062500
0.000148097	0.00932236	
i= 32		
1089	1024	0.031250
3.70079e-05	0.00465915	
i= 64		
4225	4096	0.015625
9.25093e-06	0.00232932	

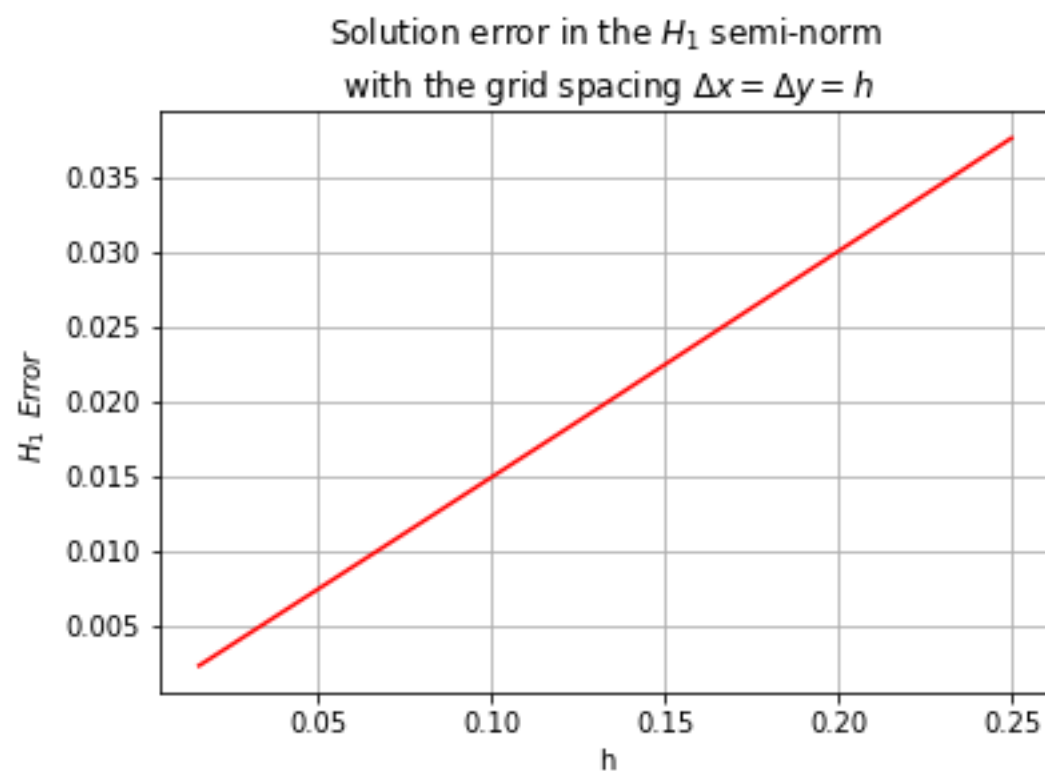
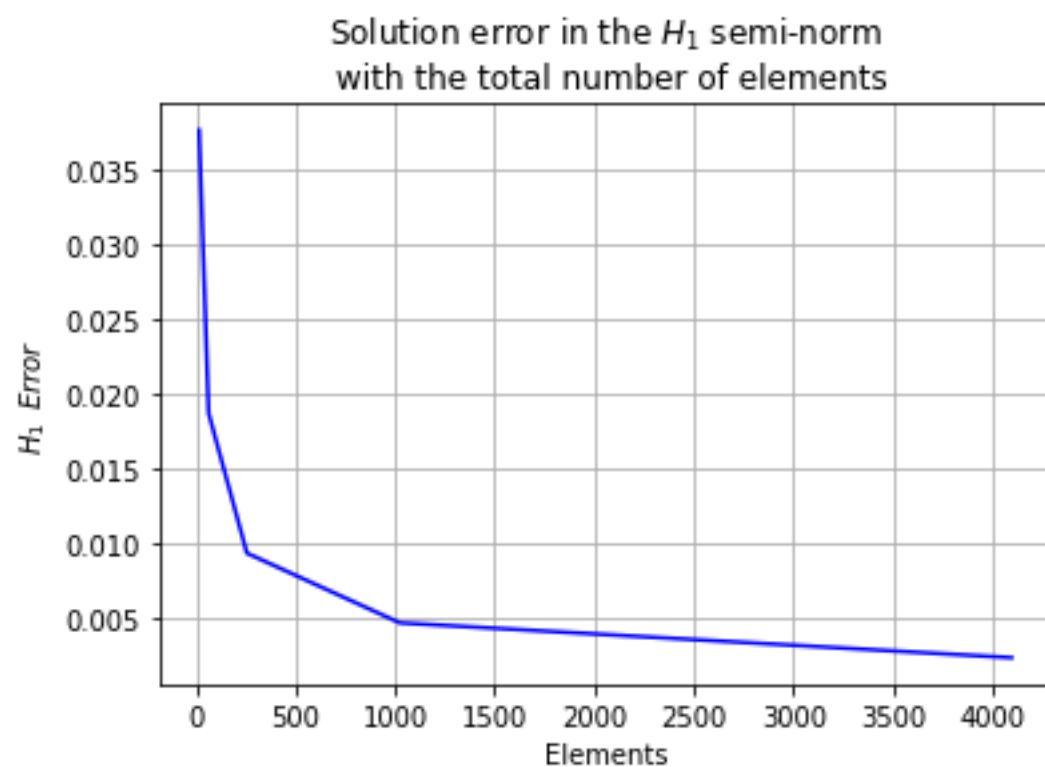


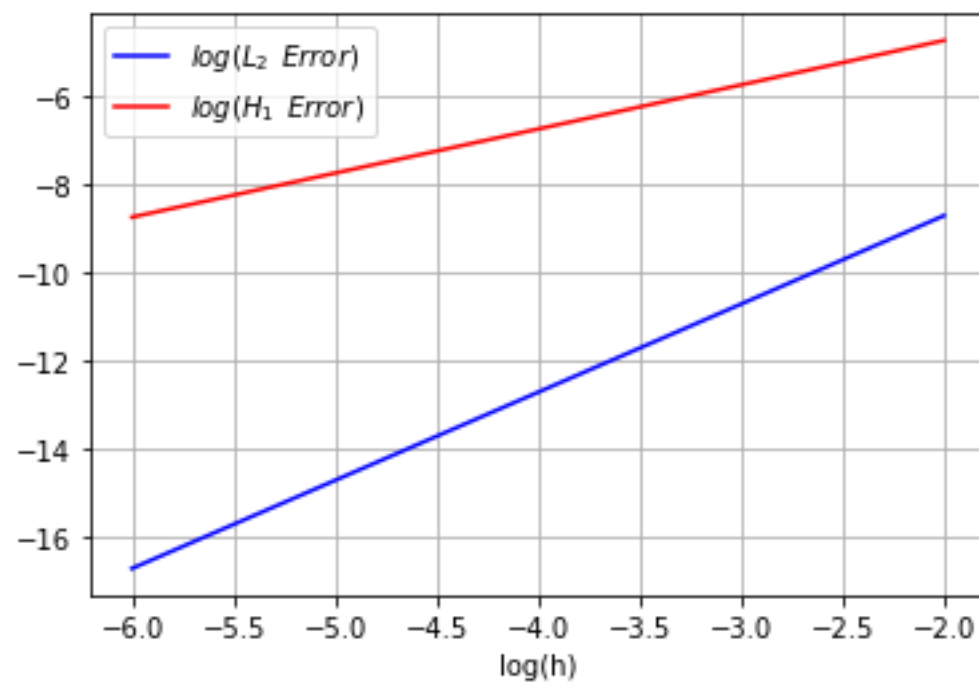
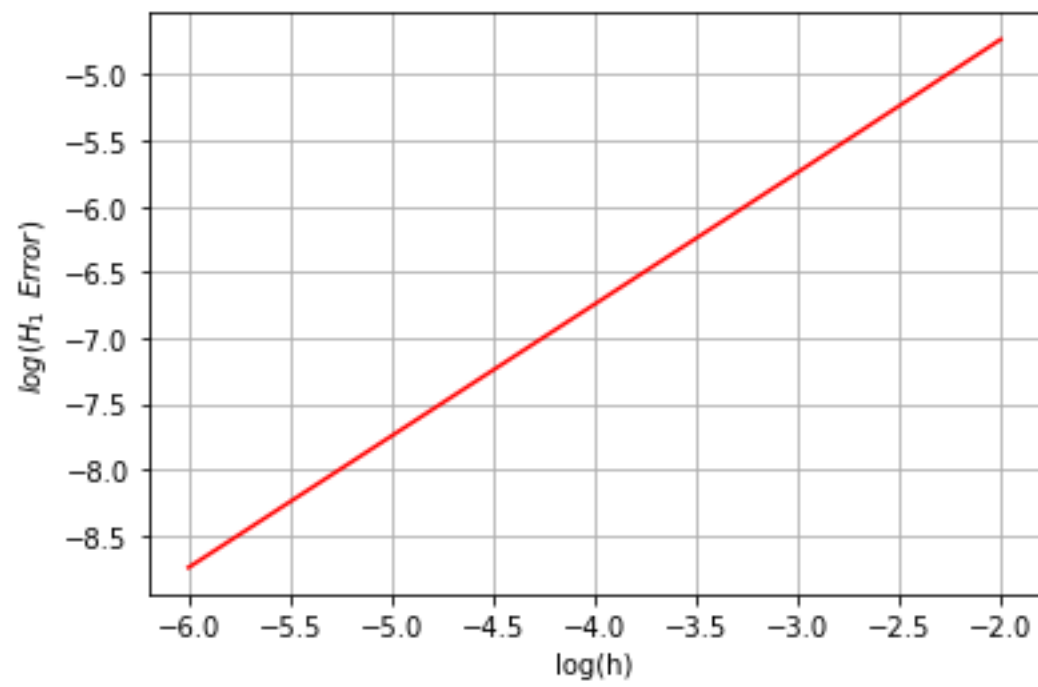




Solution error in the  $H_1$  semi-norm  
with the total number of nodes







In [2]: