Console

n	xn	f(xn)	f1(xn)
	Xn+1	Error	
---	---	---	---
0	0.5000000000	-0.1065306597	1.6065306597
	0.5663110032	0.0663110032	
1	0.5663110032	-0.0013045098	1.5676155130
	0.5671431650	0.0008321618	
2	0.5671431650	-0.0000001965	1.5671433615
	0.5671432904	0.0000001254	
3	0.5671432904	-0.0000000000	1.5671432904
	0.5671432904	0.0000000000	

The solution of this equation after 4 Iterations is 0.5671432904