```
Enter the point at which the derivative has to be calculated: 1
Enter the total number of approximations: 18
         h                    f'                   f'_h                Error
   0.100000000000000   0.540302305868140   0.497363752535389   0.042938553332751
   0.010000000000000   0.540302305868140   0.536085981011869   0.004216324856271
   0.001000000000000   0.540302305868140   0.539881480360327   0.000420825507813
   0.000100000000000   0.540302305868140   0.540260231418621   0.000042074449519
   0.000010000000000   0.540302305868140   0.540298098505865   0.000004207362275
   0.000001000000000   0.540302305868140   0.540301885121330   0.000000420746809
   0.000000100000000   0.540302305868140   0.540302264040449   0.000000041827691
   0.000000010000000   0.540302305868140   0.540302302898255   0.000000002969885
   0.000000001000000   0.540302305868140   0.540302358409406   0.000000052541266
   0.000000000100000   0.540302305868140   0.540302247387103   0.000000058481036
   0.000000000010000   0.540302305868140   0.540301137164079   0.000001168704061
   0.000000000001000   0.540302305868140   0.540345546085064   0.000043240216924
   0.000000000000100   0.540302305868140   0.539568389967826   0.000733915900314
   0.000000000000010   0.540302305868140   0.544009282066327   0.003706976198187
   0.000000000000001   0.540302305868140   0.555111512312578   0.014809206444439
   0.000000000000000   0.540302305868140                   0   0.540302305868140
   0.000000000000000   0.540302305868140                   0   0.540302305868140
   0.000000000000000   0.540302305868140                   0   0.540302305868140

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