```
% Q2
for x = [1, 10, 100, 1000, 10000, 100000]
 f1 = func1(x);
 f2 = func2(x);
 fprintf("Solution of Eq.1 : %f \n", f1);
 fprintf("Solution of Eq.2 : %f\n", f2);
  fprintf("Difference : %f\n\n", f2-f1);
end
function f = func1(x)
 f = sqrt(x)*(sqrt(x + 1) - sqrt(x));
end
function f = func2(x)
 f = sqrt(x)/(sqrt(x + 1) + sqrt(x));
end
x =
     1
Solution of Eq.1 : 0.414214
Solution of Eq.2 : 0.414214
Difference : -0.000000
x =
    10
Solution of Eq.1 : 0.488088
Solution of Eq.2 : 0.488088
Difference : 0.000000
x =
   100
Solution of Eq.1 : 0.498756
Solution of Eq.2 : 0.498756
Difference : 0.000000
x =
        1000
Solution of Eq.1 : 0.499875
```

Solution of Eq.2 : 0.499875 Difference : -0.000000

x =

10000

Solution of Eq.1 : 0.499988 Solution of Eq.2 : 0.499988 Difference : 0.000000

x =

100000

Solution of Eq.1 : 0.499999 Solution of Eq.2 : 0.499999 Difference : 0.000000

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