

FileEditViewGitProjectDebugTestAnalyzeToolsExtensionsWindowHelp

Debugx86Local Windows Debugger

Lab\_2.cpp

Project\_2

(Global Scope)

```
220         keepGoing = false;
221     }
222     maxIterations++;
223     cout << " ==> ERROR: " << error;
224 } while (keepGoing);
225
226 if (maxIterations == 51) {
227     cout << "\n\nDesired stopping error not reached after 50 iterations\n";
228     cout << "\nFinal Error: " << error;
229     cout << "\nFinal Solutions: ";
230 }
231 else {
232     cout << "\n\nNumber of Iterations: " << maxIterations-1;
233     cout << "\nFinal Error: " << error;
234     cout << "\nFinal solution is: ";
235 }
236 cout << "| ";
237 for (int index = 0; index < numEq; index++) {
238     if (index < numEq-1)
239         cout << solutions[index] << ", ";
240     else
241         cout << solutions[index];
242 }
243 cout << "| ";
244 } // END OF jacobiMethod()
245
246 // FUNCTION TO PERFORM GAUSS-SEIDEL METHOD AND PRINT SOLUTIONS FOR EACH IN
247 void gaussSeidelMethod(double eqArray[10][10], double eqResults[10], double
248 int maxIterations = 0;
249 double error;
250 double temp;
251 double previousSolution[10] = { 0 };
252 bool keepGoing = true;
253 typedef std::numeric_limits< double > dblMaxPrecision;
```

100%No issues found

Output

Show output from: Debug

```
'Project_2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\kernel.appcore.dll'.
'Project_2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcrt.dll'.
'Project_2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\rpcrt4.dll'.
The thread 0x3a40 has exited with code 0 (0x0).
The thread 0x40f4 has exited with code 0 (0x0).
The program '[7804] Project_2.exe' has exited with code 0 (0x0).
```

Error ListOutput

Microsoft Visual Studio Debug Console

Please enter the number of equations you would like to solve (up to 10 equations): 3
To load equations from a file please enter 1, for manual input please enter 0: 1
Please enter the desired stopping error value (as a real number, ie: 0.0000005): 0.000005
Please enter the file name: test.txt

Please enter the starting solution for X1: 0
Please enter the starting solution for X2: 0
Please enter the starting solution for X3: 0

\*\* JACOBI METHOD \*\*
1.3999999999999999, 1.3333333333333326, 2.5000000000000000 ==> ERROR: 0.0000000000000000
1.6666666666666652, 2.6333333333333286, 3.1666666666666652 ==> ERROR: 0.28868681104947619
1.9266666666666653, 2.9444444444444420, 3.8166666666666643 ==> ERROR: 0.14413685345581390
1.9888888888888893, 3.2477777777777743, 3.9722222222222232 ==> ERROR: 0.05664555753349738
2.0495555555555557, 3.3203703703703704, 4.1238888888888872 ==> ERROR: 0.03071667253359179
2.0640740740740741, 3.3911481481481478, 4.16018518518518476 ==> ERROR: 0.01271305082883252
2.0782296296296295, 3.40808641975308646, 4.19557407407407368 ==> ERROR: 0.00702449077880089
2.08161728395061729, 3.42460123456790111, 4.20404320987654323 ==> ERROR: 0.00293999949111668
2.08492024691358013, 3.42855349794238640, 4.21230061728395100 ==> ERROR: 0.00163145990208184
2.08571069958847710, 3.43240695473251023, 4.21427674897119342 ==> ERROR: 0.00068457708942328
2.08648139094650187, 3.43332914951989032, 4.21620347736625511 ==> ERROR: 0.00038026312706932
2.0866582990397798, 3.43422828943758507, 4.21666457475994516 ==> ERROR: 0.00015965736046716
2.08684565788751719, 3.43444346822130786, 4.21711414471879209 ==> ERROR: 0.00008870572317697
2.08688869364426166, 3.43465326753543643, 4.21722173411065349 ==> ERROR: 0.00003724917804372
2.08693065350708729, 3.43470347591830505, 4.21732663376771821 ==> ERROR: 0.00002069678616057
2.08694069518366110, 3.43475242909160139, 4.21735173795915230 ==> ERROR: 0.00000869124590713
2.08695048581832010, 3.43476414438093780, 4.21737621454580047 ==> ERROR: 0.00000482918390905
2.08695282887618738, 3.43477556678803975, 4.21738207219046934 ==> ERROR: 0.00000202794491275
2.08695511335760786, 3.43477830035555209, 4.21738778339402032 ==> ERROR: 0.00000112680597483
2.08695566007111033, 3.43478096558387591, 4.21738915017777583 ==> ERROR: 0.00000047318646757

Number of Iterations: 19
Final Error: 0.0000047318646757
Final solution is: | 2.08695566007111033, 3.43478096558387591, 4.21738915017777583 |

\*\* GAUSS-SEIDEL METHOD \*\*
1.3999999999999999, 1.7999999999999982, 3.3999999999999991 ==> ERROR: 0.0000000000000000
1.7599999999999979, 3.0533333333333323, 4.0266666666666639 ==> ERROR: 0.23494564908304988
2.01066666666666638, 3.34577777777777730, 4.17288888888888820 ==> ERROR: 0.06351020021420482
2.06915555555555564, 3.41401481481481461, 4.20700740740740731 ==> ERROR: 0.01476302880798650
2.08280296296296275, 3.42993679012345609, 4.21496839506172805 ==> ERROR: 0.00344097026497181
2.08598735802469104, 3.43365191769547273, 4.21682595884773637 ==> ERROR: 0.00080268177625298
2.08673038353909446, 3.43451878079561013, 4.21725039030780506 ==> ERROR: 0.00018728081370397
2.08690375615912194, 3.43472104885230856, 4.21736052442615428 ==> ERROR: 0.00004369822370339
2.08694420977046180, 3.43476824473220521, 4.21738412236610216 ==> ERROR: 0.00001019621772790
2.08695364894644086, 3.43477925710418086, 4.21738962855209021 ==> ERROR: 0.00000237911559297
2.08695585142083617, 3.43478182665764198, 4.21739091332882055 ==> ERROR: 0.0000005512686937
2.08695636533152840, 3.43478242622011631, 4.21739121311005860 ==> ERROR: 0.00000012952959746

Number of Iterations: 11
Final Error: 0.0000012952959746
Final solution is: | 2.08695636533152840, 3.43478242622011631, 4.21739121311005860 |

\*\* END OF PROGRAM \*\*
E:\School\CalPoly Pomona\Classes\CS\_3010\Programming Assignemtn #2 DUE OCT 31\Project\_2\Debug\Project\_2.exe (process 7804) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .

Live Share

Solution Explorer

Project\_2

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Header

Resource

Source

Lab\_2.cpp

Diagnostic Tools

Search Solution

Solution 'Project\_2'

Properties

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Add to Source Control

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10/31/2021

FileEditViewGitProjectDebugTestAnalyzeToolsExtensionsWindowHelp

Local Windows Debuggerx86

Lab\_2.cpp

Project\_2

(Global Scope)

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```
for (int index = 0; index < numOfEq; index++) {
    if (index == 0)
        cout << "\n\n ";
    solutions[index] = eqResults[index] / eqArray[index][index];

    for (int idx = 0; idx < numOfEq; idx++) {
        if (idx != index)
            solutions[index] = solutions[index] - (eqArray[index][
    }
    if (index < numOfEq-1)
        cout << solutions[index] << ", ";
    else
        cout << solutions[index];
}
cout << " |";

if (maxIterations > 0) {
    for (int index = 0; index < numOfEq; index++) {
        error = error + abs(solutions[index] * solutions[index]);
        temp = temp + abs(previousSolution[index] * previousSoluti
    }
    error = abs(sqrt(error) - sqrt(temp)) / abs(sqrt(error));
    if (error < stoppingError || maxIterations > 49)
        keepGoing = false;
}
maxIterations++;
cout << " ==> ERROR: " << error;
} while (keepGoing);

if (maxIterations == 51) {
    cout << "\n\nDesired stopping error not reached after 50 interatio
    cout << "\nFinal Error: " << error;
    cout << "\nFinal Solutions: ";
}
```

100%

No issues found

Output

Show output from: Debug

'Project\_2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\kernel.appcore.dll'.
'Project\_2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcrt.dll'.
'Project\_2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\rpcrt4.dll'.
The thread 0x3734 has exited with code 0 (0x0).
The thread 0x14c0 has exited with code 0 (0x0).
The program '[15940] Project\_2.exe' has exited with code 0 (0x0).

Microsoft Visual Studio Debug Console

Please enter the number of equations you would like to solve (up to 10 equations): 3
To load equations from a file please enter 1, for manual input please enter 0: 0
Please enter the desired stopping error value (as a real number, ie: 0.0000005): 0.000005
Please enter equation #1 X1 Value: 4
Please enter equation #1 X2 Value: -1
Please enter equation #1 X3 Value: -1
Please enter equation #1 Result: 3
Please enter equation #2 X1 Value: -2
Please enter equation #2 X2 Value: 6
Please enter equation #2 X3 Value: 1
Please enter equation #2 Result: 9
Please enter equation #3 X1 Value: -1
Please enter equation #3 X2 Value: 1
Please enter equation #3 X3 Value: 7
Please enter equation #3 Result: -6
Please enter the starting solution for X1: 0
Please enter the starting solution for X2: 0
Please enter the starting solution for X3: 0

\*\* JACOBI METHOD \*\*
0.7500000000000000, 1.5000000000000000, -0.85714285714285710 ==> ERROR: 0.0000000000000000
0.91871428571428570, 1.89285714285714279, -0.96428571428571430 ==> ERROR: 0.18513775549089698
0.98214285714285698, 1.96428571428571441, -0.99744897959183665 ==> ERROR: 0.04176039326468024
0.99170918367346950, 1.99362244897959173, -0.99744897959183665 ==> ERROR: 0.01140353727679458
0.99904336734693877, 1.99681122448979576, -1.00027332361516019 ==> ERROR: 0.00275756134392633
0.99913447521865884, 1.99972667638483959, -0.99968112244897944 ==> ERROR: 0.00088835585040607
1.00001138848396498, 1.99965834548104926, -1.00008460016659728 ==> ERROR: 0.00019061021201377
0.99989343632861294, 2.00001789618908798, -0.99994956528529766 ==> ERROR: 0.00007768273586130
1.00001708272594758, 1.99995607299042044, -1.00001777908006780 ==> ERROR: 0.00001136840769999
0.99998457325258805, 2.00000865757199398, -0.99999128432349615 ==> ERROR: 0.00000769387359029
1.00000434331212462, 1.99999340513811186, -1.00000344061705793 ==> ERROR: 0.0000023688845160

Number of Iterations: 10
Final Error: 0.0000023688845160
Final solution is: | 1.00000434331212462, 1.99999340513811186, -1.00000344061705793 |

\*\* GAUSS-SEIDEL METHOD \*\*
0.7500000000000000, 1.7500000000000000, -1.0000000000000000 ==> ERROR: 0.0000000000000000
0.9375000000000000, 1.97916666666666674, -1.00595238095238093 ==> ERROR: 0.10763086398829180
0.99330357142857151, 1.99875992063492069, -1.00077947845804971 ==> ERROR: 0.01475860117304180
0.99949511054421780, 1.99996161659108074, -1.00006664372008042 ==> ERROR: 0.00131087285058602
0.99997374321752519, 2.00000235502600532, -1.00000408740121127 ==> ERROR: 0.00008290778019265
0.9999995690619851, 2.00000053686893464, -1.00000013856610503 ==> ERROR: 0.00000303970113668
1.0000009957570746, 2.00000005628625344, -0.9999999381579219 ==> ERROR: 0.0000009554105685

Number of Iterations: 6
Final Error: 0.0000009554105685
Final solution is: | 1.0000009957570746, 2.00000005628625344, -0.9999999381579219 |

\*\* END OF PROGRAM \*\*
E:\\_School\CalPoly Pomona\Classes\\_CS\_3010\Programming Assignemtn #2 DUE OCT 31\Project\_2\Debug\Project\_2.exe (process 15940) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .

Solution Explorer

Live Share

Diagnostic Tools

Search Solution

Solution 'Pro

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10/31/2021

Lab\_2.cpp

Project\_2

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```
for (int index = 0; index < numOfEq; index++) {
    if (index == 0)
        cout << "\n ";
    solutions[index] = eqResults[index] / eqArray[index][0];

    for (int idx = 0; idx < numOfEq; idx++) {
        if (idx != index)
            solutions[index] = solutions[index] - (eqArray[idx][index] * solutions[idx]);
    }
    if (index < numOfEq-1)
        cout << solutions[index] << ", ";
    else
        cout << solutions[index];
}
cout << " |";

if (maxIterations > 0) {
    for (int index = 0; index < numOfEq; index++) {
        error = error + abs(solutions[index] * solutions[index]);
        temp = temp + abs(previousSolution[index] * previousSolution[index]);
    }
    error = abs(sqrt(error) - sqrt(temp)) / abs(sqrt(error));
    if (error < stoppingError || maxIterations > 49)
        keepGoing = false;
}
maxIterations++;
cout << " ==> ERROR: " << error;
} while (keepGoing);

if (maxIterations == 51) {
    cout << "\n\nDesired stopping error not reached after 50 iterations";
    cout << "\n\nFinal Error: " << error;
    cout << "\n\nFinal Solutions: ";
}
```

100%

No issues found

Output

Show output from: Debug

'Project\_2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\kernel.appcore.dll'.  
'Project\_2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcrt.dll'.  
'Project\_2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\rpcrt4.dll'.  
The thread 0x2530 has exited with code 0 (0x0).  
The thread 0x3a1c has exited with code 0 (0x0).  
The program '[10012] Project\_2.exe' has exited with code 0 (0x0).

Search

Local Windows Debugger

Please enter the number of equations you would like to solve (up to 10 equations): 4  
To load equations from a file please enter 1, for manual input please enter 0: 0  
Please enter the desired stopping error value (as a real number, ie: 0.00000005): 0.00000005  
Please enter equation #1 X1 Value: 10  
Please enter equation #1 X2 Value: -1  
Please enter equation #1 X3 Value: 2  
Please enter equation #1 X4 Value: 0  
Please enter equation #1 Result: 6  
Please enter equation #2 X1 Value: -1  
Please enter equation #2 X2 Value: 11  
Please enter equation #2 X3 Value: -1  
Please enter equation #2 X4 Value: 3  
Please enter equation #2 Result: 25  
Please enter equation #3 X1 Value: 2  
Please enter equation #3 X2 Value: -1  
Please enter equation #3 X3 Value: 10  
Please enter equation #3 X4 Value: -1  
Please enter equation #3 Result: -11  
Please enter equation #4 X1 Value: 0  
Please enter equation #4 X2 Value: 3  
Please enter equation #4 X3 Value: -1  
Please enter equation #4 X4 Value: 8  
Please enter equation #4 Result: 15  
  
Please enter the starting solution for X1: 0  
Please enter the starting solution for X2: 0  
Please enter the starting solution for X3: 0  
Please enter the starting solution for X4: 0  
  
\*\* JACOBI METHOD \*\*  
0.5999999999999999, 2.2727272727272729, -1.1000000000000000, 1.8750000000000000 ==> ERROR: 0.0000000000000000  
1.0472727272727273, 1.715909090909091, -0.8052272727272729, 0.8852272727272727 ==> ERROR: 0.36855710674973674  
0.9326363636363637, 2.0533057851239671, -1.0493409090909091, 1.1308806818181818 ==> ERROR: 0.14379492983292771  
1.0151987603305785, 1.9536957644628090, -0.9681086260330579, 0.97384271694214875 ==> ERROR: 0.05300667962144349  
0.9889913016528925, 2.0114147257700980, -1.0102859039256200, 1.02135051007231414 ==> ERROR: 0.02533370063264441  
1.00319865336213399, 1.99224126068275753, -0.99452173674633748, 0.99443373984551076 ==> ERROR: 0.00961257390437333  
0.99812847341754329, 2.00230688155266101, -1.00197223061959995, 1.00359431015067369 ==> ERROR: 0.00451651818003166  
1.00062513427918609, 1.99867030112235722, -0.99903557551317534, 0.99888839059030210 ==> ERROR: 0.00177618478891007  
0.99967414521487075, 2.00044767154500969, -1.00036915768457124, 1.00061919013996903 ==> ERROR: 0.00080945084278275  
1.00011859869141517, 1.99976794701003580, -0.99982814287447641, 0.99978597846004991 ==> ERROR: 0.00032709537374424  
0.99994242327589888, 2.00008477458516287, -1.00006832719127448, 1.00010850201192714 ==> ERROR: 0.00014573137239993  
1.00002214289677127, 1.99995896273171314, -0.99996915699547095, 0.99995966863165464 ==> ERROR: 0.00005988884174069  
0.99998972767226546, 2.00001581636421211, -1.00001256544301764, 1.00001924435117373 ==> ERROR: 0.00002632484278392  
1.00000409472502483, 1.99999267537961178, -0.99999443946291477, 0.99999249818304314 ==> ERROR: 0.00001096964639958  
0.99999815543054416, 2.00000292370117982, -1.00000230158873959, 1.00000344179978118 ==> ERROR: 0.00000476614479434  
1.00000075268786581, 1.99999868440386019, -0.99999899453601260, 0.99999861591346506 ==> ERROR: 0.00000200204162230  
0.99999966734758849, 2.00000053731013283, -1.00000042050584081, 1.00000061903155091 ==> ERROR: 0.00000086422251202  
1.00000013783218145, 1.99999976270428181, -0.99999981783534930, 0.99999974594547003 ==> ERROR: 0.00000036492631021  
0.99999993983749802, 2.00000009837822024, -1.00000007670146140, 1.00000011175647563 ==> ERROR: 0.00000015686146052  
1.00000002517811426, 1.99999995707878298, -0.99999996695403084, 0.99999995352048465 ==> ERROR: 0.00000006646309959  
0.999999890868426, 2.00000001796933047, -1.00000001397569593, 1.00000002022620271 ==> ERROR: 0.00000002848986384  
  
Number of Iterations: 20  
Final Error: 0.0000002848986384  
Final solution is: | 0.9999999809868426, 2.0000001796933047, -1.0000001397569593, 1.00000002022620271 |  
  
\*\* GAUSS-SEIDEL METHOD \*\*  
0.5999999999999999, 2.3272727272727270, -0.9872727272727271, 0.87886363636363629 ==> ERROR: 0.00000000000000000  
1.0301818181818183, 2.03693801652892592, -1.01445619834710765, 0.98434121900826421 ==> ERROR: 0.02160673666763846  
1.00658504132231408, 2.00355501600458304, -1.00252738467317815, 0.99835094557663406 ==> ERROR: 0.01266856250742577  
1.00086097862509393, 2.00029825065654698, -1.00030727610170089, 0.99984974649108227 ==> ERROR: 0.00185328148252661  
1.00009128028599492, 2.00021342246459008, -1.00003114718344510, 0.99998810325964727 ==> ERROR: 0.00020879134405123  
1.000008363636133505, 2.00000117333626815, -1.00000274507267561, 0.99999921686481508 ==> ERROR: 0.00002007799153172

Solution Explorer

Project\_2

Extern

Header

Resource

Source

Lab\_2.cpp

Properties

Git

Source Control

2:07 PM

10/31/2021



Microsoft Visual Studio Code

File Edit View Project Build Debug Test Analyze Tools Extensions Window Help

Debug x86 Local Windows Debugger

Lab\_2.cpp

Project\_2 (Global Scope)

```
262
263     for (int index = 0; index < numOfEq; index++) {
264         if (index == 0)
265             cout << "\n ";
266         solutions[index] = eqResults[index] / eqArray[index][0];
267
268         for (int idx = 0; idx < numOfEq; idx++) {
269             if (idx != index)
270                 solutions[index] = solutions[index] - (eqArray[idx][index] * solutions[idx]);
271         }
272         if (index < numOfEq-1)
273             cout << solutions[index] << ", ";
274         else
275             cout << solutions[index];
276     }
277     cout << " |";
278
279     if (maxIterations > 0) {
280         for (int index = 0; index < numOfEq; index++) {
281             error = error + abs(solutions[index] * solutions[index] - eqResults[index]);
282             temp = temp + abs(previousSolution[index] * previousSolution[index] - eqResults[index]);
283         }
284         error = abs(sqrt(error) - sqrt(temp)) / abs(sqrt(error));
285         if (error < stoppingError || maxIterations > 49)
286             keepGoing = false;
287     }
288     maxIterations++;
289     cout << " ==> ERROR: " << error;
290 } while (keepGoing);
291
292 if (maxIterations == 51) {
293     cout << "\n\nDesired stopping error not reached after 50 iterations";
294     cout << "\nFinal Error: " << error;
295     cout << "\nFinal Solutions: ";
```

100% No issues found

Output

Show output from: Debug

```
'Project_2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\kernel.appcore.dll'.
'Project_2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\msvcrt.dll'.
'Project_2.exe' (Win32): Loaded 'C:\Windows\SysWOW64\rpcrt4.dll'.
The thread 0x2530 has exited with code 0 (0x0).
The thread 0x3a1c has exited with code 0 (0x0).
The program '[10012] Project_2.exe' has exited with code 0 (0x0).
```

Error List Output

Microsoft Visual Studio Code

```
1.00000075268786581, 1.99999868440386019, -0.99999899453601260, 0.99999861591346506 ==> ERROR: 0.00000200204162230
0.99999966734758849, 2.00000053731013283, -1.00000042050584081, 1.00000061903155091 ==> ERROR: 0.00000086422251202
1.00000013783218145, 1.99999976270428181, -0.99999981783534930, 0.99999974594547003 ==> ERROR: 0.00000036492631021
0.99999993983749802, 2.00000009837822024, -1.00000007670146140, 1.00000011175647563 ==> ERROR: 0.00000015686146052
1.00000002517811426, 1.99999995707878298, -0.99999996695403004, 0.99999995352048465 ==> ERROR: 0.00000006646309959
0.9999998909868426, 2.00000001796933047, -1.00000001397569593, 1.00000002022620271 ==> ERROR: 0.00000002848986384

Number of Iterations: 20
Final Error: 0.0000002848986384
Final solution is: | 0.9999998909868426, 2.00000001796933047, -1.00000001397569593, 1.00000002022620271 |

** GAUSS-SEIDEL METHOD **
0.59999999999999998, 2.3272727272727270, -0.98727272727272741, 0.87886363636363629 ==> ERROR: 0.00000000000000000
1.03018181818181831, 2.03693801652892592, -1.01445619834710765, 0.98434121900826421 ==> ERROR: 0.02160673666763846
1.00658504132231408, 2.00355501690458304, -1.00252738467317815, 0.99835094557663406 ==> ERROR: 0.01266856250742577
1.00086097862509393, 2.00029825065654698, -1.00030727610170089, 0.99984974649108227 ==> ERROR: 0.00185328148252661
1.00009128028599492, 2.00002134224645900, -1.00003114718344510, 0.99998810325964727 ==> ERROR: 0.00020879134405123
1.00000836366133505, 2.00000117333626815, -1.00000274507267561, 0.99999921686481508 ==> ERROR: 0.00002007799153172
1.00000066634816198, 2.00000002460736725, -1.00000020912241427, 0.99999996463193541 ==> ERROR: 0.00000168328295680
1.00000004428521971, 1.99999999466063683, -1.00000001292778684, 1.00000000038628789 ==> ERROR: 0.00000012034240853
1.00000000205162110, 1.99999999890590696, -1.00000000048110493, 1.00000000035014680 ==> ERROR: 0.000000060369753

Number of Iterations: 8
Final Error: 0.000000060369753
Final solution is: | 1.0000000205162110, 1.99999999890590696, -1.00000000048110493, 1.00000000035014680 |

** END OF PROGRAM **
E:\School\CalPoly Pomona\Classes\CS_3010\Programming Assignemtn #2 DUE OCT 31\Project_2\Debug\Project_2.exe (process 10012) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

Solution Explorer

Project\_2

Properties

Source Control

2:08 PM 10/31/2021