```matlab
%read file using csvread and plotting graph using diff function
a = csvread('FRED-BASE.csv',1,0);
x = diff(a)
b = csvread('FRED-CP.csv',1,0);
y = diff(b)
plot(x(200,:),y(200,:),'g')
```

x =

*1.0e+03 **

-2.0430	*3.7713*
2.0430	*-3.7713*
-2.0290	*3.7831*
2.0290	*-3.7821*
-2.0460	*3.7743*
2.0460	*-3.7743*
-2.0320	*3.9125*
2.0320	*-3.9115*
-2.0460	*3.8809*
2.0460	*-3.8809*
-2.0320	*3.9044*
2.0320	*-3.9034*
-2.0490	*3.8441*
2.0490	*-3.8441*
-2.0350	*3.9203*
2.0350	*-3.9203*
-2.0210	*3.7499*
2.0200	*-3.7609*
-2.0370	*3.8597*
2.0370	*-3.8597*
-2.0230	*3.8966*
2.0230	*-3.8956*
-2.0390	*3.9366*
2.0390	*-3.9366*
-2.0250	*3.8909*
2.0250	*-3.8899*
-2.0420	*3.8749*
2.0420	*-3.8749*
-2.0280	*3.8445*
2.0280	*-3.8435*
-2.0440	*3.8665*
2.0440	*-3.8665*
-2.0300	*4.0113*
2.0300	*-4.0103*
-2.0470	*3.9503*
2.0470	*-3.9503*
-2.0330	*3.9540*
2.0330	*-3.9540*
-2.0190	*3.8788*
2.0190	*-3.8778*

```
-2.0360     3.8457
 2.0360    -3.8457
-2.0220     3.7114
 2.0220    -3.7104
-2.0380     3.8137
 2.0380    -3.8137
-2.0240     3.8382
 2.0240    -3.8372
-2.0410     3.7952
 2.0410    -3.7952
-2.0270     3.7905
 2.0270    -3.7895
-2.0430     3.8655
 2.0430    -3.8655
-2.0290     3.8729
 2.0290    -3.8719
-2.0460     3.8647
 2.0460    -3.8647
-2.0320     3.9326
 2.0320    -3.9326
-2.0180     3.7965
 2.0180    -3.7955
-2.0320     3.7819
 2.0320    -3.7819
-2.0180     3.6663
 2.0180    -3.6653
-2.0350     3.6765
 2.0350    -3.6765
-2.0210     3.4195
 2.0200    -3.4305
-2.0370     3.5326
 2.0370    -3.5326
-2.0230     3.6062
 2.0230    -3.6052
-2.0390     3.6488
 2.0390    -3.6488
-2.0250     3.6513
 2.0250    -3.6503
-2.0420     3.6104
 2.0420    -3.6104
-2.0280     3.5944
 2.0280    -3.5934
-2.0440     3.6921
 2.0440    -3.6921
-2.0300     3.9146
 2.0300    -3.9136
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 2.0470    -3.8362
-2.0330     3.8807
 2.0330    -3.8807
-2.0190     3.8318
 2.0190    -3.8308
-2.0360     3.8285
 2.0360    -3.8285
```

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 2.0220   -3.7502
-2.0380    3.8800
 2.0380   -3.8800
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 2.0240   -3.9061
-2.0410    3.8429
 2.0410   -3.8429
-2.0270    3.8753
 2.0270   -3.8743
-2.0430    3.9017
 2.0430   -3.9017
-2.0290    3.9277
 2.0290   -3.9267
-2.0460    3.8779
 2.0460   -3.8779
-2.0320    3.9985
 2.0320   -3.9985
-2.0180    3.9153
 2.0180   -3.9143
-2.0330    3.9258
 2.0330   -3.9258
-2.0190    3.8309
 2.0190   -3.8299
-2.0360    3.9216
 2.0360   -3.9216
-2.0220    3.6509
 2.0210   -3.6619
-2.0380    3.8341
 2.0380   -3.8341
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 2.0240   -3.9197
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 2.0400   -4.0061
-2.0260    4.0760
 2.0260   -4.0750
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 2.0430   -4.0970
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 2.0450   -3.9900
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 2.0310   -4.1749
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 2.0170   -4.0835
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 2.0340   -3.9754
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 2.0370   -4.0436
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```

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 2.0390    -3.9591
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 2.0420    -3.9566
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 2.0440    -4.0319
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 2.0300    -4.1718
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 2.0330    -4.1476
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 2.0190    -3.8098
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 2.0330    -3.8851
-2.0190     4.0388
 2.0190    -4.0378
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 2.0360    -4.1406
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 2.0210    -3.9532
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 2.0380    -4.0066
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 2.0240    -3.7494
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 2.0400    -3.8240
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 2.0260    -3.8976
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 2.0430    -3.9860
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 2.0340    -4.1335
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 2.0390    -3.9693
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 2.0330    -3.8856
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 2.0190    -3.7900
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 2.0380    -3.6823
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 2.0400    -3.7005
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 2.0430    -3.6383
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 2.0290    -3.6350
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 2.0310    -3.5549
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 2.0340    -3.4360
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 2.0370    -3.3334
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 2.0390    -3.1978
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 2.0250    -3.2503
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 2.0340   -2.6982
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 2.0390   -2.6109
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 2.0250   -2.6839
-2.0420    2.6467
 2.0420   -2.6467
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 2.0300    -2.6954
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 2.0330    -2.6950
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 2.0410    -2.5923
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 2.0400    -2.6519
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 2.0290    -2.5916
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 2.0340   -2.2772
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 2.0390   -1.9948
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 2.0270   -1.9946
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 2.0300   -2.0133
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-2.0350    2.0383
 2.0350   -2.0383
-2.0210    2.0346
 2.0210   -2.0336
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 2.0240   -2.0339
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 2.0260   -2.0412
-2.0120    2.0424
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 2.0290   -2.0560
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 2.0340   -2.1032
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-2.0340    2.1857
 2.0340   -2.1857
-2.0200    2.0960
 2.0200   -2.0950
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 2.0370   -2.0605
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 2.0220   -1.9834
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 2.0390   -2.0064
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 2.0250   -2.0481
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 2.0110   -2.0924
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 2.0270   -2.0214
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 2.0300   -1.9735
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 2.0380   -1.7094
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 2.0310   -1.8229
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 2.0340   -1.6266
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 2.0370   -1.7535
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 2.0390   -1.7028
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 2.0250   -1.6835
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 2.0110   -1.5050
-2.0270    1.5160
 2.0270   -1.5160
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 2.0130   -1.2750
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 2.0300   -1.1924
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 2.0350   -0.8850
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 2.0210   -0.8822
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 2.0380   -0.8834
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 2.0260   -0.8705
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 2.0120   -0.8691
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 2.0290   -0.8663
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 2.0150   -0.8606
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 2.0310   -0.8607
-2.0170    0.8594
 2.0170   -0.8584
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 2.0350   -0.8627
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 2.0210   -0.8537
-2.0380    0.8616
 2.0380   -0.8616
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 2.0260   -0.8582
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 2.0280   -0.8688
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 2.0310   -0.8668
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 2.0170   -0.8645
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 2.0330   -0.8681
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 2.0190   -0.8588
-2.0360    0.8628
 2.0360   -0.8628
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 2.0220   -0.8688
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 2.0250   -0.8617
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 2.0110   -0.8556
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 2.0270   -0.8578
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 2.0130   -0.8560
-2.0300    0.8568
 2.0300   -0.8568
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 2.0160   -0.8545
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-2.0180    0.8499
 2.0180   -0.8489
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 2.0350   -0.8536
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 2.0380   -0.8532
-2.0240    0.8478
 2.0240   -0.8478
-2.0100    0.8408
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 2.0260   -0.8482
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 2.0120   -0.8527
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 2.0280   -0.8499
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 2.0140   -0.8451
-2.0310    0.8491
 2.0310   -0.8491
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 2.0170   -0.8439
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 2.0330   -0.8509
-2.0190    0.8447
 2.0190   -0.8437
-2.0360    0.8480
 2.0360   -0.8480
-2.0220    0.8445
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-2.0080    0.8468
 2.0080   -0.8458
-2.0250    0.8449
 2.0250   -0.8449
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 2.0110   -0.8411
-2.0270    0.8433
 2.0270   -0.8433
-2.0130    0.8439
 2.0130   -0.8429
-2.0300    0.8451
 2.0300   -0.8451
-2.0160    0.8420
 2.0160   -0.8410
-2.0320    0.8408
 2.0320   -0.8408
-2.0180    0.8353
 2.0180   -0.8343
-2.0350    0.8396
 2.0350   -0.8396
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 2.0210   -0.8362
```

```
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 2.0210   -0.8311
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 2.0070   -0.8366
-2.0240    0.8276
 2.0240   -0.8276
-2.0100    0.8193
 2.0090   -0.8303
-2.0260    0.8268
 2.0260   -0.8268
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 2.0120   -0.8286
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 2.0280   -0.8298
-2.0140    0.8236
 2.0140   -0.8226
-2.0310    0.8273
 2.0310   -0.8273
-2.0170    0.8238
 2.0170   -0.8228
-2.0330    0.8305
 2.0330   -0.8305
-2.0190    0.8204
 2.0190   -0.8194
-2.0360    0.8215
 2.0360   -0.8215
-2.0220    0.8178
 2.0220   -0.8178
-2.0080    0.8200
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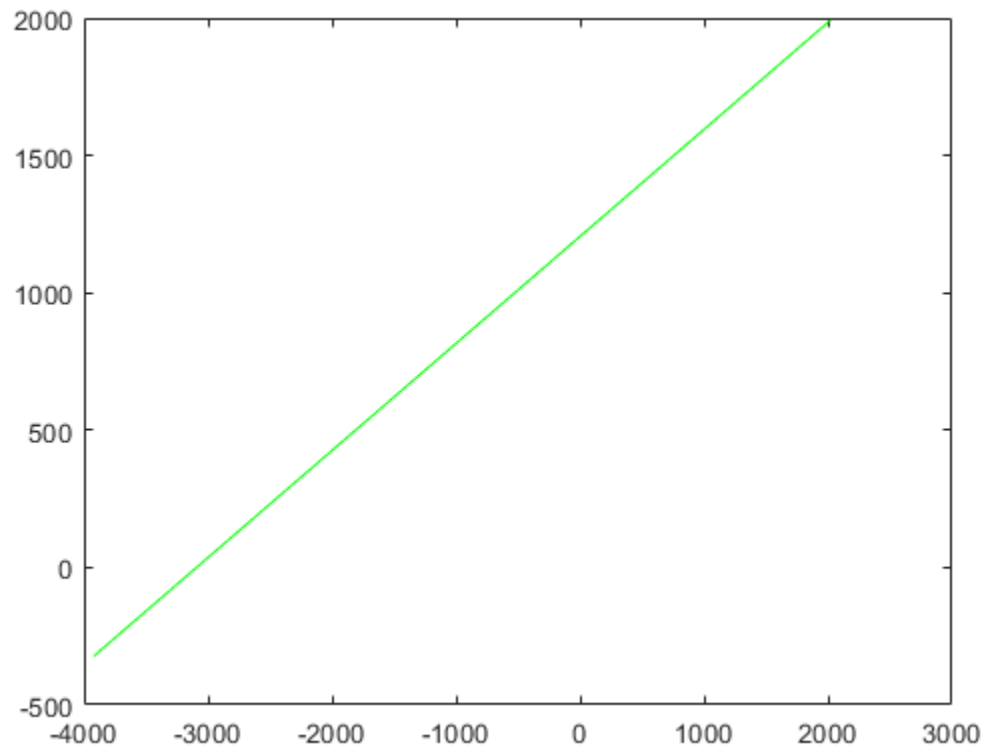```
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