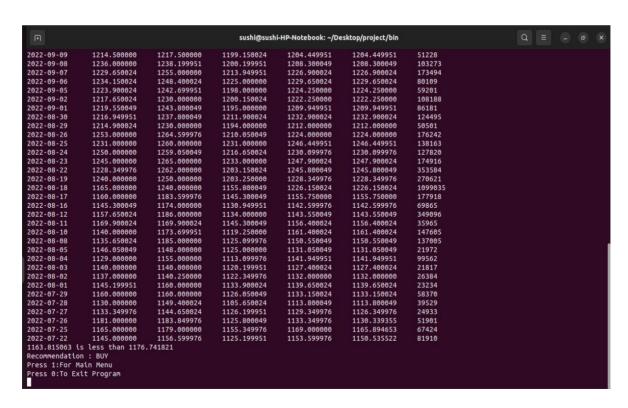
TEST REPORT

Unit Testing: Using # in csv:

Input:

```
Date, Open, High, Low, Close, Adj Close, Volume
02022-07-24, 1296. 000000, 1311. 000000, 1277. 000000, 1302. 300049, 1302. 300049, 134176
02022-07-24, 1296. 000000, 1311. 000000, 1277. 000000, 1277. 550049, 23754
0202-07-26, 1278. 000000, 1283. 0999976, 1266. 200000, 1277. 550049, 23754
0202-07-26, 1278. 000000, 1283. 0999976, 1266. 200000, 1277. 550049, 23754
0202-07-26, 1278. 000000, 1283. 0999976, 1268. 2500000, 1277. 550049, 23754
0202-07-26, 1278. 000000, 1283. 0999976, 1278. 000000, 1277. 550049, 23754
0202-07-29, 1309. 000000, 1280. 0999976, 1278. 000000, 1277. 599976, 1278. 099995, 1278. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 000000, 1279. 0
```

Output:



Unit Testing: Using 0 in csv: Input

```
Date, Open, High, Low, Close, Adj Close, Volume
02022-07-24, 1296. 000000, 1311. 000000, 1327. 000000, 1302. 300049, 1302. 300049, 134176
02022-07-24, 1296. 000000, 1311. 000000, 1277. 000000, 1277. 550049, 23754
0202-07-26, 1278. 000000, 1380. 000000, 1280. 000000, 1277. 550049, 1277. 550049, 23754
0202-07-26, 1278. 000000, 1380. 000000, 1277. 000000, 1277. 550049, 1277. 550049, 23754
0202-07-26, 1278. 000000, 1380. 000000, 1380. 000000, 1277. 1999531, 1279. 0999531, 92589
0202-07-29, 1309. 000000, 1309. 000000, 1277. 000000, 1277. 1999531, 1278. 1999531, 1278. 0000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 0000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 0000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 000000, 1278. 0000000, 1278. 0000000, 1278. 0000000, 1278. 0000000, 1278. 0000000, 1278. 0000000000, 1
```

Output:

```
sushi@sushi-HP-Notebook: ~/Desktop/project/bin
                                                                                                                                                      1199,150024
                                                                                                                                                                                                     1204,449951
                                                                                                                                                                                                                                                       1204.449951
   2022-09-09
                                                   1214,500000
                                                                                                    1217,500000
                                                                                                                                                                                                                                                                                                        51228
                                                                                                   1217.500000
1238.199951
1255.000000
1248.400024
1242.699951
1230.000000
                                                                                                                                                     1199.150024
1200.199951
1213.949951
1225.000000
1198.000000
1200.150024
   2022-09-08
2022-09-07
                                                   1236.000000
1229.650024
                                                                                                                                                                                                      1208.300049
                                                                                                                                                                                                                                                       1208.300049
                                                                                                                                                                                                                                                                                                        103273
173494
   2022-09-06
2022-09-05
2022-09-02
                                                   1234.150024
1223.900024
1217.650024
                                                                                                                                                                                                     1229.650024
1224.250000
1222.250000
                                                                                                                                                                                                                                                       1229.650024
1224.250000
1222.250000
                                                                                                                                                                                                                                                                                                        80109
59201
108188
                                                  1217.650024
1219.550049
1216.949951
1214.900024
1253.000000
1231.000000
1250.000000
1245.000000
1228.349976
                                                                                                                                                    1200.150024
1195.000000
1211.900024
1194.000000
1210.050049
1231.0000000
   2022-09-01
2022-08-30
                                                                                                   1243.800049
1237.800049
1230.000000
                                                                                                                                                                                                     1209.949951
1232.900024
1212.000000
                                                                                                                                                                                                                                                       1209.949951
1232.900024
1212.000000
                                                                                                                                                                                                                                                                                                        86181
124495
   2022-08-29
                                                                                                                                                                                                                                                                                                        50501
                                                                                                                                                                                                     1212.000000
1224.000000
1246.449951
1230.099976
1247.900024
1245.800049
                                                                                                   1230.000000
1264.599976
1260.000000
1259.050049
1265.000000
1262.000000
                                                                                                                                                                                                                                                      1212.000000
1224.000000
1246.449951
1230.099976
1247.900024
1245.800049
   2022-08-26
                                                                                                                                                                                                                                                                                                        176242
138163
                                                                                                                                                     1216.650024
1233.000000
1203.150024
   2022-08-24
                                                                                                                                                                                                                                                                                                        127826
                                                                                                                                                                                                                                                                                                        353584
   2022-08-19
2022-08-18
2022-08-17
                                                   1240.000000
1165.000000
1160.000000
                                                                                                   1250.000000
1240.000000
1183.599976
                                                                                                                                                     1203.250000
1155.800049
1145.300049
                                                                                                                                                                                                     1228.349976
1226.150024
1155.750000
                                                                                                                                                                                                                                                       1228.349976
1226.150024
1155.750000
                                                                                                                                                                                                                                                                                                        270621
109903
177918
                                                                                                                                                    1145.300049
1130.949951
1134.800000
1145.300049
1119.250000
1125.090976
1125.600000
1113.809976
1120.199951
1122.349976
1133.900024
1126.650049
                                                  1160.000000
1145.300049
1157.650024
1169.900024
1140.000000
1135.650024
1146.050049
1129.000000
1140.000000
                                                                                                   1174.000000
1186.000000
1169.900024
1173.699951
1185.000000
                                                                                                                                                                                                     1142.599976
1143.550049
1156.400024
1161.400024
1150.550049
                                                                                                                                                                                                                                                       1142.599976
1143.550049
1156.400024
                                                                                                                                                                                                                                                                                                        69865
349096
35965
   2022-08-16
2022-08-12
    2022-08-11
   2022-08-10
2022-08-08
                                                                                                                                                                                                                                                       1161.400024
1150.550049
                                                                                                                                                                                                                                                                                                        147605
137005
                                                                                                                                                                                                      1131.050049
                                                                                                                                                                                                                                                       1131.050049
1141.949951
1127.400024
   2022-08-05
                                                                                                                                                                                                                                                                                                        21972
                                                                                                   1155.000000
1140.000000
                                                                                                                                                                                                      1141.949951
1127.400024
                                                                                                                                                                                                                                                                                                        99562
21817
    2022-08-03
   2022-08-02
2022-08-01
2022-07-29
                                                   1137.000000
1145.199951
1160.000000
                                                                                                   1140.250000
1160.000000
1160.000000
                                                                                                                                                                                                      1132.000000
1139.650024
1133.150024
                                                                                                                                                                                                                                                       1132.000000
1139.650024
1133.150024
                                                                                                                                                                                                                                                                                                        26384
                                                                                                                                                                                                                                                                                                        23234
58370
                                                                                                                                                    1126.050049
1105.650024
1126.199951
1125.800049
1155.349976
1125.199951
                                                                                                                                                                                                     1133.150024
1113.800049
1129.349976
1133.349976
1169.000000
1153.599976
                                                   1130.000000
1133.349976
                                                                                                                                                                                                                                                       1113.800049
1126.349976
1130.339355
                                                                                                                                                                                                                                                                                                       39529
24933
51901
                                                                                                     1149.400024
2022-07-27 1133.349976 1144,

2022-07-26 1181.000000 1183,

2022-07-25 1165.000000 1179,

2022-07-22 1145.000000 1156,

1163.815063 is less than 1176.741821

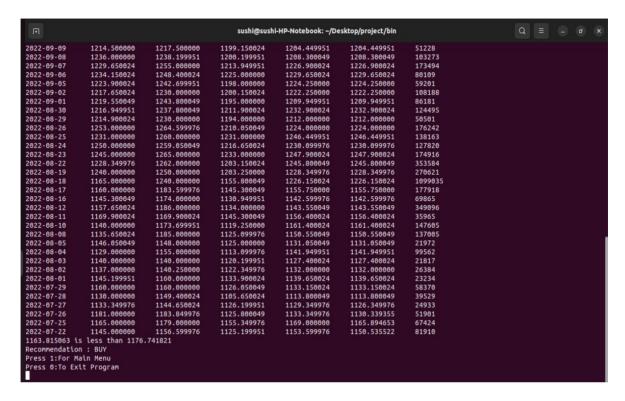
Recommendation : BUY

Press 1:For Main Menu

Press 0:TO Exit Program
                                                                                                    1183.849976
                                                                                                    1179.000000
1156.599976
```

Integration testing:

IT_Test_case 1 (Recommendation Buy):



Test case-2(Recommendation Sell):

