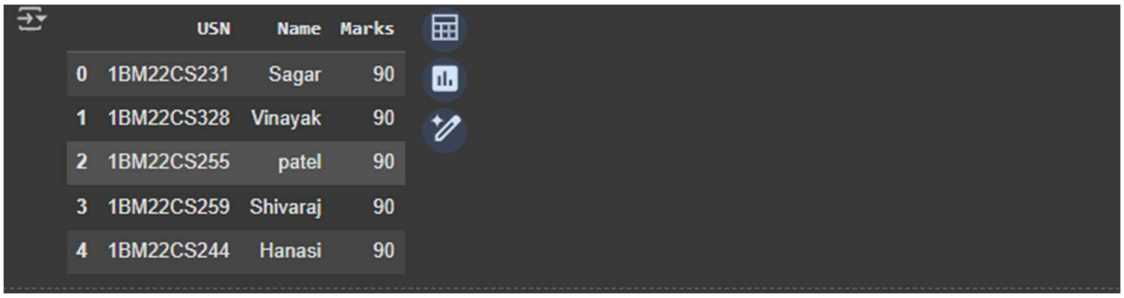
LAB-0

OUTPUTS:



	USN	Name	Marks
0	1BM22CS231	Sagar	90
1	1BM22CS328	Vinayak	90
2	1BM22CS255	patel	90
3	1BM22CS259	Shivaraj	90
4	1BM22CS244	Hanasi	90

```
Sample_data :
        age       sex       bmi        bp        s1        s2        s3  \
0  0.038076  0.050680  0.061696  0.021872 -0.044223 -0.034821 -0.043401
1 -0.001882 -0.044642 -0.051474 -0.026328 -0.008449 -0.019163  0.074412
2  0.085299  0.050680  0.044451 -0.005670 -0.045599 -0.034194 -0.032356
3 -0.089063 -0.044642 -0.011595 -0.036656  0.012191  0.024991 -0.036038
4  0.005383 -0.044642 -0.036385  0.021872  0.003935  0.015596  0.008142

         s4        s5        s6  target
0 -0.002592  0.019907 -0.017646   151.0
1 -0.039493 -0.068332 -0.092204    75.0
2 -0.002592  0.002861 -0.025930   141.0
3  0.034309  0.022688 -0.009362   206.0
4 -0.002592 -0.031988 -0.046641   135.0
```

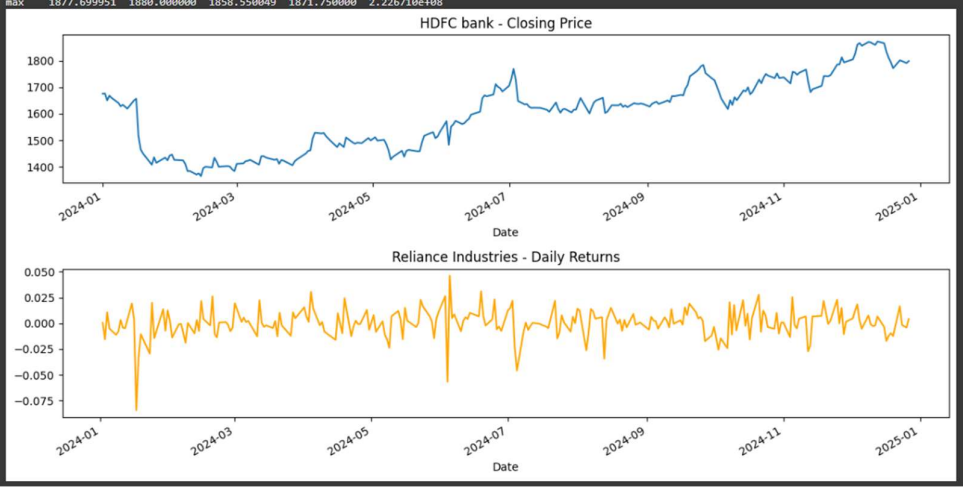
```
Sample_data :
    Product  Quantity  Price  Sales Region
0    Laptop         5   1000   5000  North
1     Mouse        15     20    300   West
2  Keyboard        10     50    500   East
3   Monitor         8    200   1600  South
4    Laptop        12    950  11400  North
```

```
Sample_data :
     ID  No_Pation Gender  AGE  Urea  Cr  HbA1c  Chol   TG  HDL  LDL  VLDL  \
0  502      17975      F   50   4.7  46    4.9   4.2  0.9  2.4  1.4   0.5
1  735      34221      M   26   4.5  62    4.9   3.7  1.4  1.1  2.1   0.6
2  420      47975      F   50   4.7  46    4.9   4.2  0.9  2.4  1.4   0.5
3  680      87656      F   50   4.7  46    4.9   4.2  0.9  2.4  1.4   0.5
4  504      34223      M   33   7.1  46    4.9   4.9  1.0  0.8  2.0   0.4

    BMI CLASS
0  24.0     N
1  23.0     N
2  24.0     N
3  24.0     N
4  21.0     N
```

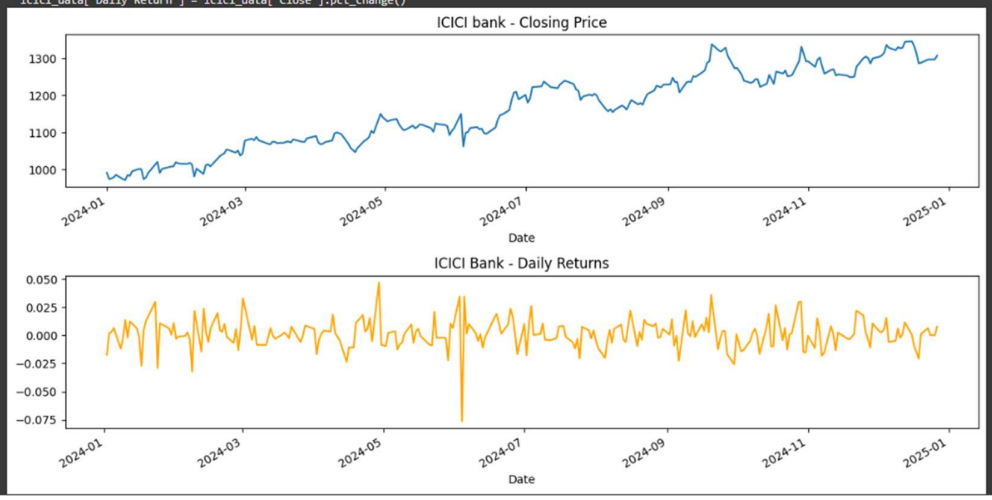
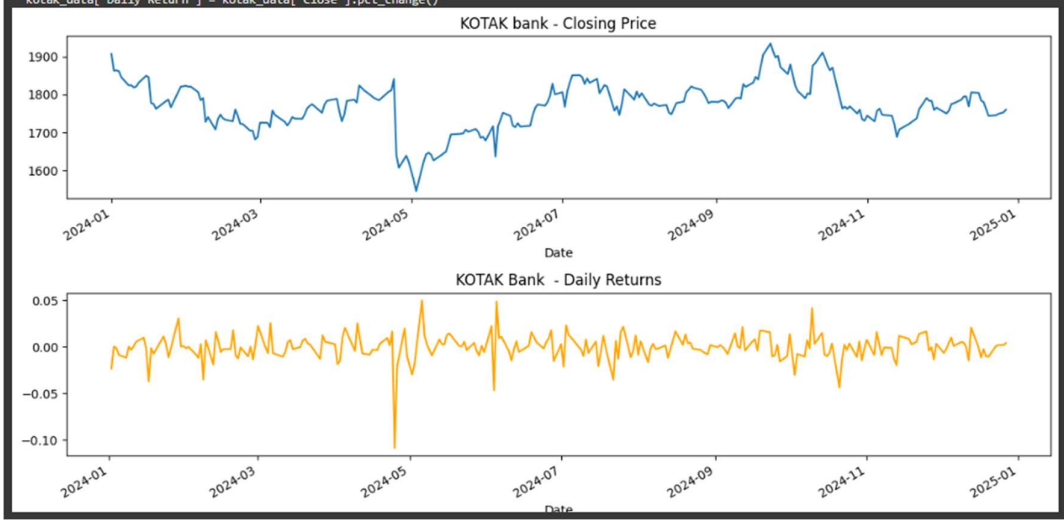
Stock Market data analysis:

```
Summary statistics for HDFC bank :
Price          Open          High           Low         Close        Volume
count   244.000000    244.000000    244.000000    244.000000  2.440000e+02
mean   1601.375295   1615.443664   1588.221245   1601.898968  2.119658e+07
std     134.648125    134.183203    132.796819    133.748372  2.133860e+07
min    1357.463183   1372.754374   1345.180951   1365.404785  8.798460e+05
25%    1475.316358   1494.072805   1460.259509   1474.564087  1.274850e+07
50%    1627.724976   1638.350037   1616.000000   1625.950012  1.686810e+07
75%    1696.474976   1711.425018   1679.250000   1697.062531  2.295014e+07
max    1877.699951   1880.000000   1858.550049   1871.750000  2.226710e+08
```




```
Summary statistics for ICICI bank :
Price          Open          High           Low         Close        Volume
count   244.000000    244.000000    244.000000    244.000000  2.440000e+02
mean   1161.723560   1173.687900   1151.318979   1162.751791  1.539172e+07
std     104.905646    105.668229    105.083015    105.520481  9.503609e+06
min     965.637027    979.567116    961.869473    971.387512  1.007022e+06
25%    1073.818215   1085.368782   1067.386038   1075.107086  1.014533e+07
50%    1169.443635   1178.450012   1157.361521   1165.470703  1.291768e+07
75%    1248.512512   1261.399994   1236.649963   1250.812531  1.755770e+07
max    1344.900024   1362.349976   1340.050049   1346.099976  7.325777e+07
<ipython-input-11-f907d99f91bb>:27: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  icici_data['Daily Return'] = icici_data['Close'].pct_change()
```



```
Summary statistics for KOTAK bank :
Price          Open          High           Low         Close        Volume
count   244.000000   244.000000   244.000000   244.000000  2.440000e+02
mean   1771.245907  1787.548029  1754.395105  1770.792347  5.736598e+06
std      62.189675    61.978802    62.765980    62.594747  5.388927e+06
min    1581.266899  1586.161558  1542.159736  1545.006592  1.824890e+05
25%    1733.974927  1754.131905  1719.028421  1736.297058  3.300380e+06
50%    1769.500000  1789.450012  1758.099976  1773.681030  4.307680e+06
75%    1809.925018  1826.998164  1789.912506  1808.155670  6.159475e+06
max    1935.000000  1942.000000  1909.599976  1934.699951  6.617908e+07
<ipython-input-11-f907d99f91bb>:41: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  kotak_data['Daily Return'] = kotak_data['Close'].pct_change()
```