LAB –0

Method 1

	USN	Name	Marks
0	1BM22CS231	Sagar	90
1	1BM22CS328	Vinhayak	90
2	1BM22CS257	Shashidhar	90
3	1BM22CS259	Shivaraj	90
4	1BM22CS241	Sanket	90

Method 2

```
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
```

Method 3

```
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
```
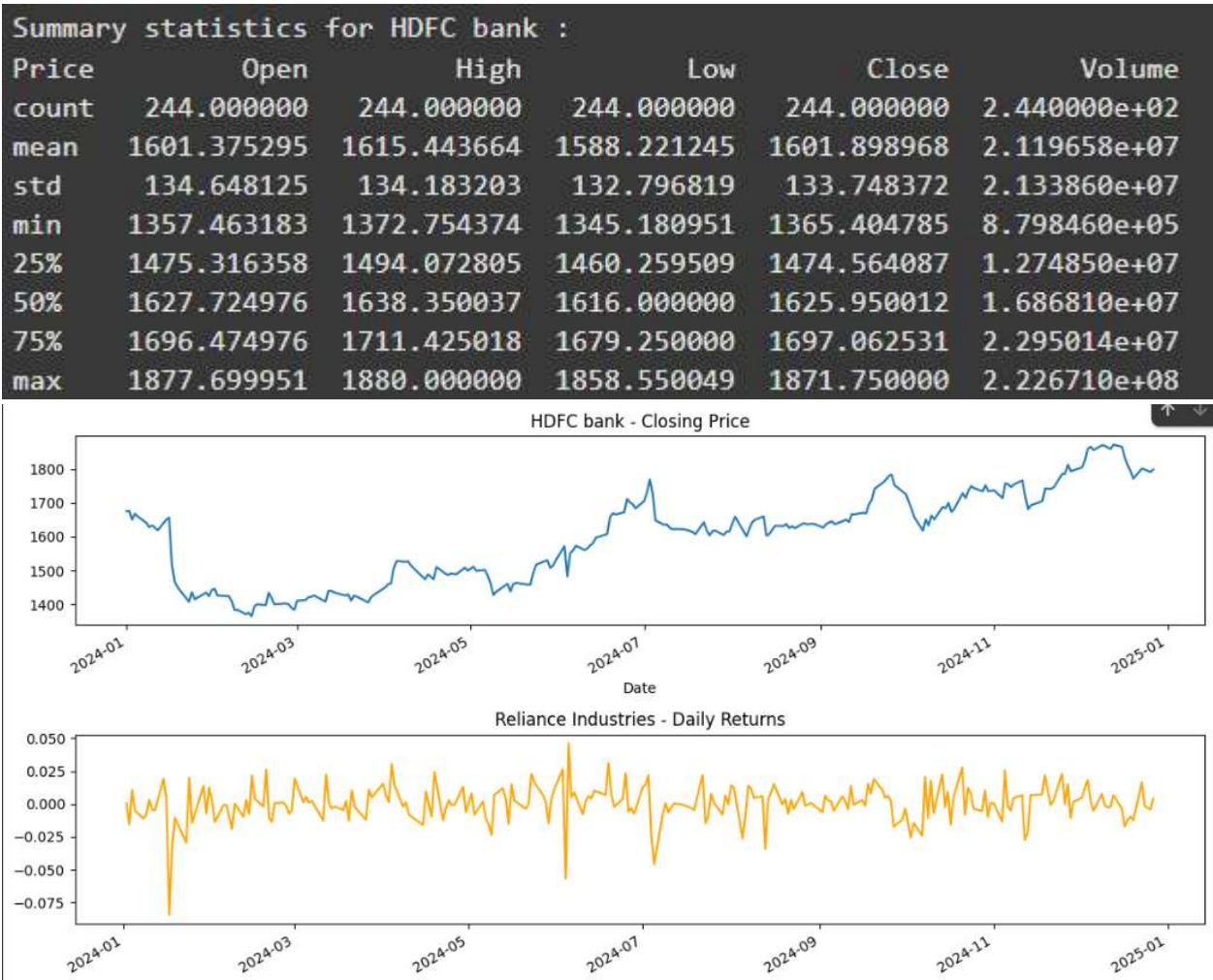
Method 4

```
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
```
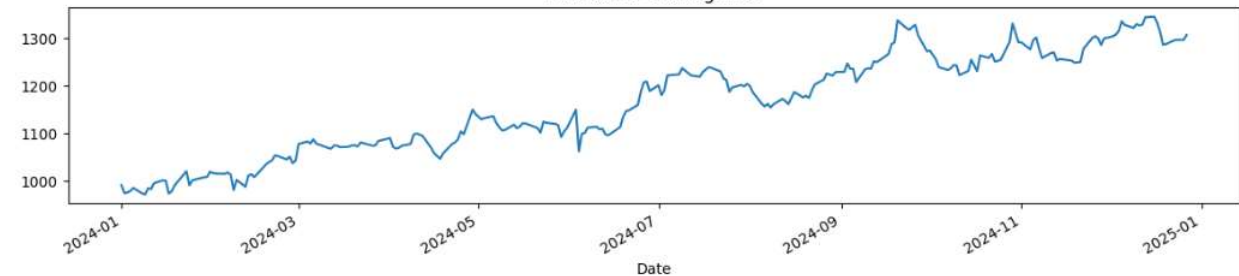
Stock market data analysis

```
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
```
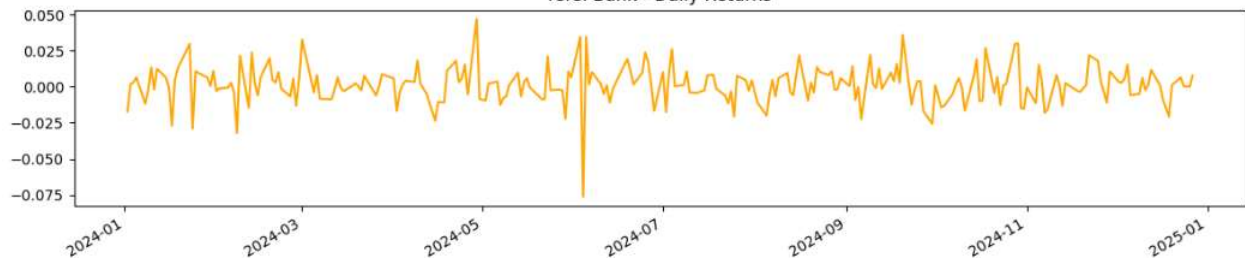

ICICI bank - Closing Price

ICICI Bank - Daily Returns

```
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
```

KOTAK bank - Closing Price

KOTAK Bank - Daily Returns