**5.1 Functions to be tested:**

* Float dividendYieldRatio()
* Float EPS()
* Float debtEquity()
* Float priceEarnings()
* Float profitOrLoss()

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| **Test Cases** | **Test Scenario** | **Steps** | **Expected Output** |
| **01** | Check for Dividend Yield Ratio | Input Cash dividend per share.  Input Face value of the share  **Dividend(%)**=(Cash dividend per share/Face value of the share)\*100  **Dividend Yield(%)=** (Cash dividend per share/Dividend)\*100 | **Ex. XYZ company**  Cash dividend per share = 18 Rs.  Face value = 2 Rs.  Dividend = (18/2)\*100=900%  Dividend yield ratio=(18/900)\*100=2% |
| **02** | Check for Earnings per Share | Input net income  Input preferred dividends per share  Input outstanding common share  **EPS**=(net income - preferred dividends per share)/outstanding common share | Net income=$7.6  Preferred dividends=$0  Outstanding common shares=$3.98  EPS=$7.6/$3.98 = $1.91 |
| **03** | Check for Debt-to-Equity Ratio | Input total liabilities  Input total shareholders equity  **D/E**=total liabilities/total shareholders  equity | Total liabilities=$50,000  Total shareholders equity=$100,000  D/E=$50,000/$100,000=$0.5 |
| **04** | Check for Price-to-Earnings Ratio | Input market value of the share  Input Earnings per share  **P/E**=market value of the share/EPS | Market value of the share=900.04 Rs.  EPS=47.5  P/E=900.05/47.5=18.94 Rs. |
| **05** | Check for Profit or Loss Ratio | Input buy price  Input sell price  Input Quantity  **Profit/Loss**=(sell price-buy price)\*quantity | Buy price=1000 Rs.  Sell price=1100 Rs.  Quantity=400  Profit=(1100 - 1000)\*400=40,000 Rs. |