

This is the abstract class AbstractStock.

```
public abstract class AbstractStock
{
    public abstract double Update(int percentChange);

    public AbstractStock()
    {
    }
}
```

This is the class Stock which is derived from class AbstractStock.
There are five properties in the Stock class.
In order to present informations in detail, I override ToString method.

```
public class Stock : AbstractStock
{
    public int Id { get; set; }
    public string Name { get; set; }
    public double Price { get; set; }
    public string Symbol { get; set; }
    public int Volume { get; set; }

    public override double Update(int percentChange)
    {
        return 0;
    }

    public Stock()
    {
    }

    public override string ToString()
    {
        return $"\\nThe company's Id is: {Id}; " +
            $"\\n The company's Name is: {Name}; " +
            $"\\n Its volume is: {Volume} and shares: ${Price}; " +
            $"\\n The Stock ticket is: {Symbol};" +
            $"\\n It worths {Price * Volume}";
    }
}
```

This is the class InvestmentCompany which can handle AbstractStock objects.
I created five objects for the stocks.
At last, loop through Portfolio List to state all the informations.

```
public class InvestmentCompany
{
    public InvestmentCompany()
    {
    }

    public void Add(AbstractStock s)
    {
    }

    public static void demo()
    {
        List<AbstractStock> portfolio = new List<AbstractStock>
        {
            new Stock { Id = 1, Name = "Microsoft", Price = 126.24, Symbol = "MSFT", Volume = 10 },
            new Stock { Id = 2, Name = "IBM", Price = 132.28, Symbol = "IBM", Volume = 20 },
            new Stock { Id = 3, Name = "Apple", Price = 178.79, Symbol = "AAPL", Volume = 30 },
            new Stock { Id = 4, Name = "Google", Price = 1138.61, Symbol = "GOOGL", Volume = 40 },
            new Stock { Id = 5, Name = "Starbucks", Price = 76.15, Symbol = "SBUX", Volume = 50 }
        };
        foreach(Stock stock in portfolio)
        {
            Console.WriteLine(stock);
        }
    }
}
```