

```
//Laboratory Activity4
//Stock Price Tracker
```

```
using System;
using System.Linq;
using System.Collections.Generic;
```

```
namespace HelloWorld;
```

```
public static class Activity4
{
```

```
    public static void Main(String[] args)
    {
        decimal[] prices = new decimal[7];
        decimal[] gains = new decimal[7];
        int highestGainDay = 0;
```

```
        Console.WriteLine("Enter stock prices for 7 days:");
```

```
        for (int i = 0; i < 7; i++)
        {
            Console.Write($"Day {i + 1}: ");
            prices[i] = decimal.Parse(Console.ReadLine());
        }
```

```
        for (int i = 1; i < 7; i++)
        {
            decimal change = prices[i] - prices[i - 1];
            gains[i] = (change / prices[i - 1]) * 100;
```

```
            if (gains[i] > gains[highestGainDay])
            {
                highestGainDay = i;
            }
        }
```

```
        Console.WriteLine("\nPercentage gain per day:");
        for (int i = 1; i < 7; i++)
```

```
        {
            Console.WriteLine($"Day {i + 1}: {gains[i]:F2}%");
        }
```

```
        Console.WriteLine($"Highest gain was on Day {highestGainDay + 1} with
{gains[highestGainDay]:F2}%");
    }
}
```