

```

using System;
using System.Drawing;
using TradingPlatform.BusinessLayer;

namespace CustomIndicators
{
    public class EmaCrossSignal : Indicator
    {
        [InputParameter("Fast EMA Period", 0, 1, 500, 1, 0)]
        public int FastPeriod = 9;

        [InputParameter("Slow EMA Period", 1, 1, 500, 1, 0)]
        public int SlowPeriod = 21;

        private Indicator fastEma;
        private Indicator slowEma;

        public EmaCrossSignal()
        {
            Name = "EMA Cross Signal Generator";
            Description = "Highlights Fast/Slow EMA crossovers directly on price bars.";
            SeparateWindow = false;
        }

        protected override void OnInit()
        {
            fastEma = Core.Indicators.BuiltIn.EMA(FastPeriod, PriceType.Close);
            slowEma = Core.Indicators.BuiltIn.EMA(SlowPeriod, PriceType.Close);

            AddIndicator(fastEma);
            AddIndicator(slowEma);

            AddLineSeries("Bullish Cross", Color.Green, 2, LineStyle.Solid);
            AddLineSeries("Bearish Cross", Color.Red, 2, LineStyle.Solid);
        }

        protected override void OnUpdate(UpdateArgs args)
        {
            if (Count < Math.Max(FastPeriod, SlowPeriod) + 1) return;

            double prevFast = fastEma.GetValue(1);
            double currFast = fastEma.GetValue(0);
            double prevSlow = slowEma.GetValue(1);
            double currSlow = slowEma.GetValue(0);

```

```
// Bullish Crossover
if (prevFast <= prevSlow && currFast > currSlow)
{
    SetValue(Low[0] - (TickSize * 4), 0); // Bullish Plot
}
// Bearish Crossover
else if (prevFast >= prevSlow && currFast < currSlow)
{
    SetValue(High[0] + (TickSize * 4), 1); // Bearish Plot
}
}
}
```