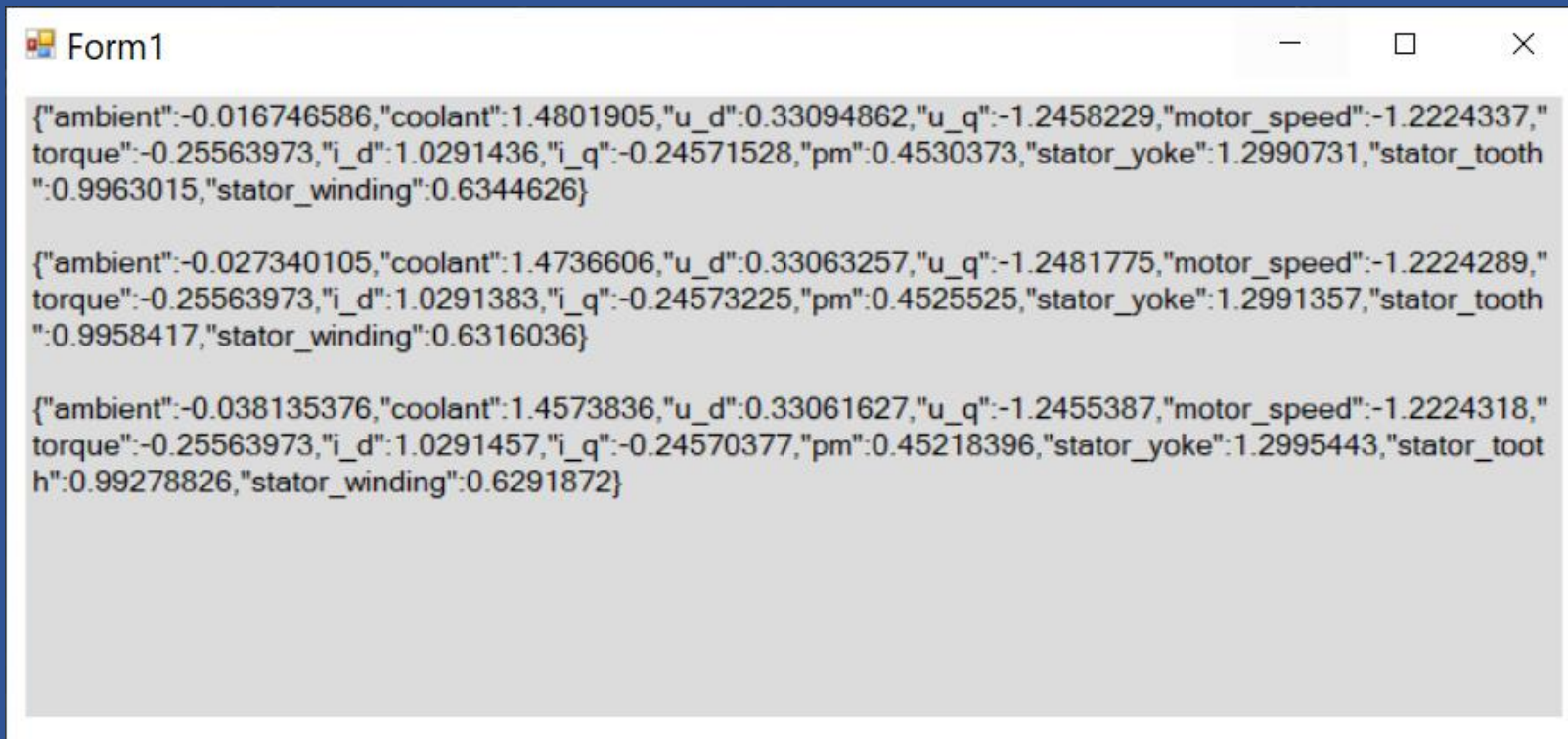


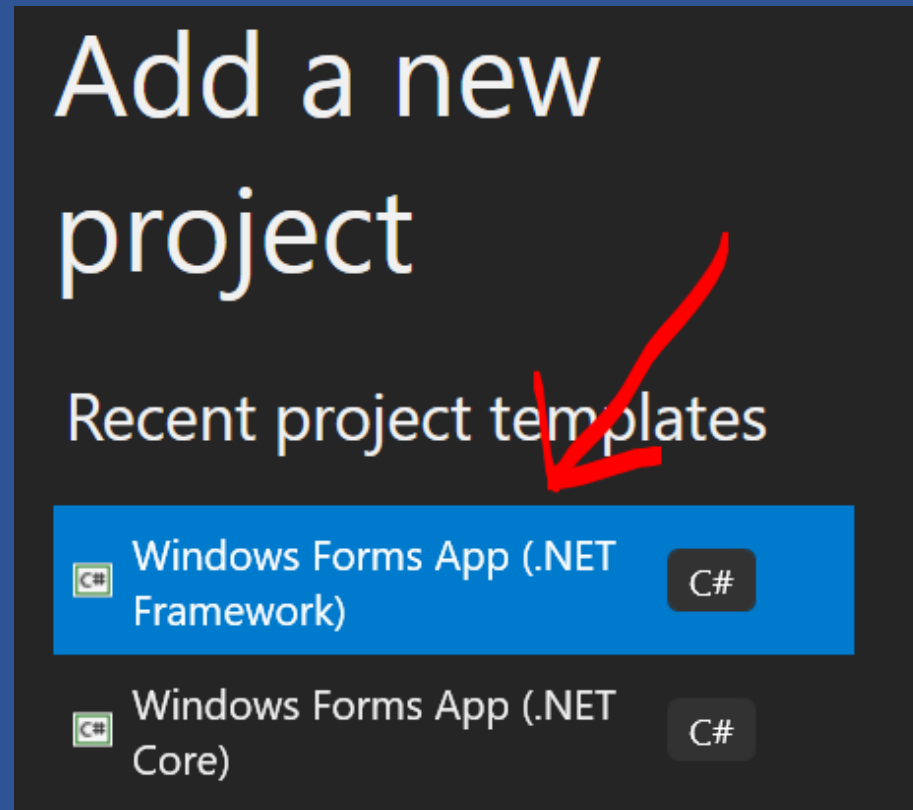
WinForm Backend D2C



Create WinForm show D2C message



Open Visual Studio / Create C# .NET Framework WinForm



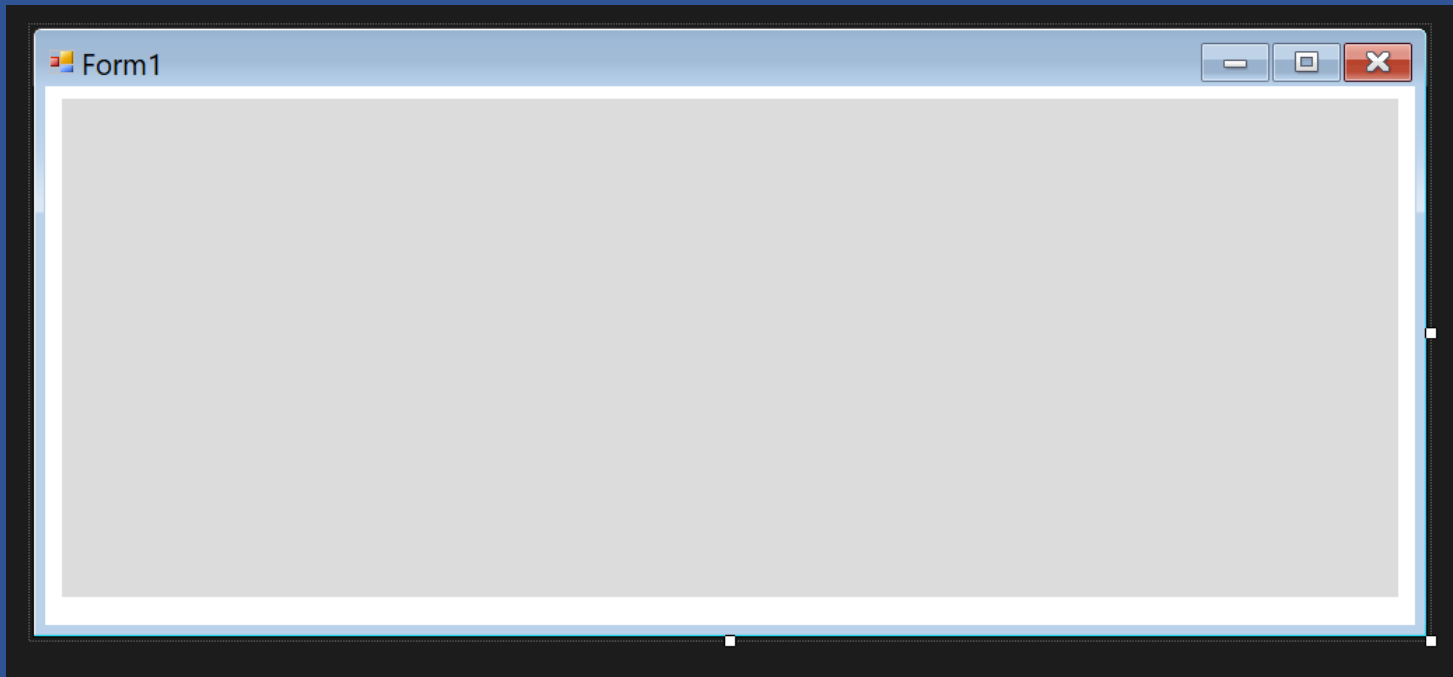
Add Namespace

```
1  using Microsoft.Azure.EventHubs;  
2  using System;  
3  using System.Text;  
4  using System.Threading.Tasks;  
5  using System.Windows.Forms;
```

Add class members

```
11 private Timer myTimer = new Timer();
12 private bool ready = true;
13
14 private readonly string s_eventHubsCompatibleEndpoint =
15     "sb://ihsuprodsgre[REDACTED]ce.servicebus.windows.net/";
16 private readonly string s_eventHubsCompatiblePath =
17     "iothub-ehub-loy[REDACTED]-c4bf924f3c";
18 private readonly string s_iotHubSasKey =
19     "KCyf3omKkmWncXuk[REDACTED]MIxBWRoWgmAw=";
20 private readonly string s_iotHubSasKeyName = "service";
21 private EventHubClient s_eventHubClient;
22 private PartitionReceiver eventHubReceiver;
```

Add a Label to Form1



Add method GetD2CMessage()

```
28 private async Task GetD2CMessage()  
29 {  
30     var events = await eventHubReceiver.ReceiveAsync(100);  
31     if (events == null) { ready = true; return; }  
32     foreach (EventData eventData in events)  
33     {  
34         string s = Encoding.UTF8.GetString(eventData.Body.Array);  
35         label1.Text += $"{s} \r\r";  
36         ready = true;  
37     }  
38 }
```

Add code to Form1_Load

```
39 private void Form1_Load(object sender, EventArgs e)
40 {
41     myTimer.Enabled = true;
42     myTimer.Interval = 3000;
43     myTimer.Tick += MyTimer_Tick;
44
45     var connectionString = new EventHubsConnectionStringBuilder(
46         new Uri(s_eventHubsCompatibleEndpoint),
47         s_eventHubsCompatiblePath,
48         s_iotHubSasKeyName,
49         s_iotHubSasKey);
50     s_eventHubClient = EventHubClient.CreateFromConnectionString(
51         connectionString.ToString());
52     eventHubReceiver = s_eventHubClient.CreateReceiver(
53         "$Default",
54         "0",
55         EventPosition.FromEnqueuedTime(DateTime.Now));
56 }
```


Add code to MyTimer_Tick

```
private async void MyTimer_Tick(object sender, EventArgs e)
{
    if (ready)
    {
        ready = false;
        await GetD2CMessage();
    }
}
```

What's next?

