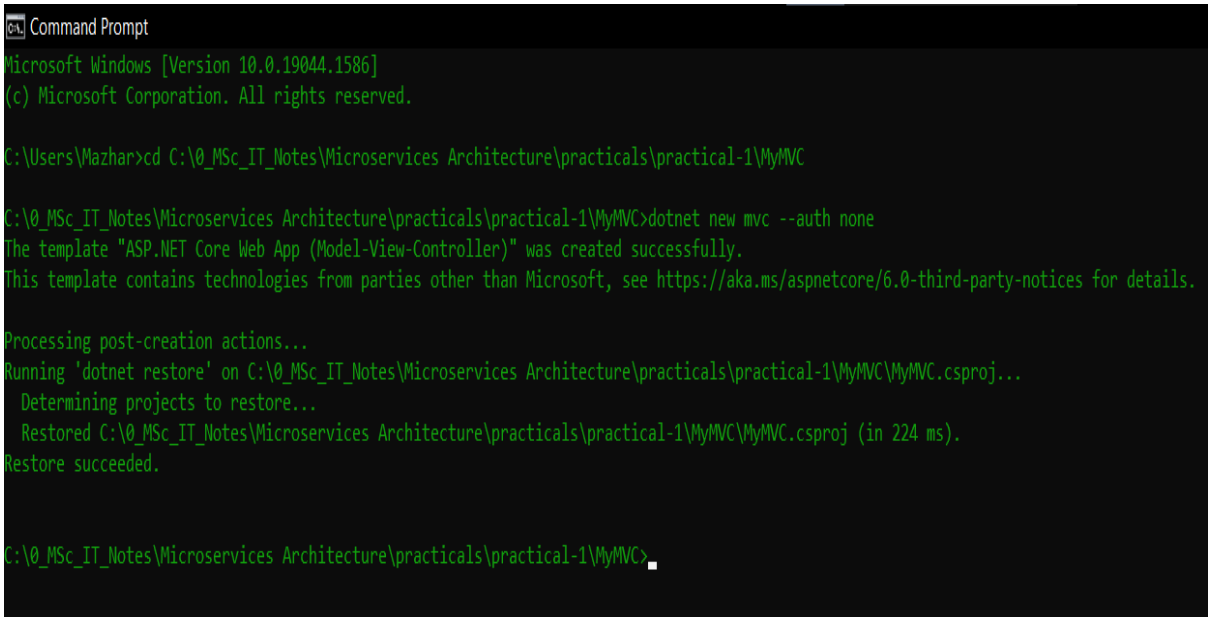
Practical 1

1)Install .Net Core Sdk (Link: https://dotnet.microsoft.com/learn/dotnet/hello-world-tutorial/install)

2)create folder MyMVC folder in D: drive or any other drive

3)open command prompt and perform following operations Command: to create mvc project



4) Go to controllers folder and modify HomeController.cs file to match following:

```
using System.Diagnostics;
using Microsoft.AspNetCore.Mvc;
using MyMVC.Models;

namespace MyMVC.Controllers;

2 references
public class HomeController : Controller
{
    1 reference
    private readonly ILogger<HomeController> _logger;

    0 references
    public HomeController(ILogger<HomeController> logger)
    {
        _logger = logger;
    }

    0 references
    public String Index()
    {
        return "Hello World";
    }

}
```

5) Run the project

```
C:\0_MSc_IT_Notes\Microservices Architecture\practicals\practical-1\MyMVC>dotnet run
Building...
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: https://localhost:7044
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://localhost:5086
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
      Content root path: C:\0_MSc_IT_Notes\Microservices Architecture\practicals\practical-1\MyMVC\
```

Now open browser and and type URL: localhost:7044

Hello World __By Mazhar Solkar

6) Now go back to command prompt and stop running project using CTRL+C

```
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: https://localhost:7044
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://localhost:5086
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
      Content root path: C:\0_MSc_IT_Notes\Microservices Architecture\practicals\practical-1\MyMVC\
info: Microsoft.Hosting.Lifetime[0]
      Application is shutting down...

C:\0_MSc_IT_Notes\Microservices Architecture\practicals\practical-1\MyMVC>
```

7)Go to models folder and add new file StockQuote.cs to it with following content

```
namespace myMvc.Models;
    1 reference
    public class StockQuote
    {
        1 reference
        public string? Symbol {get;set;}
        1 reference
        public int Price {get;set;}
        1 reference
        public string? By {get;set;}
    }
```

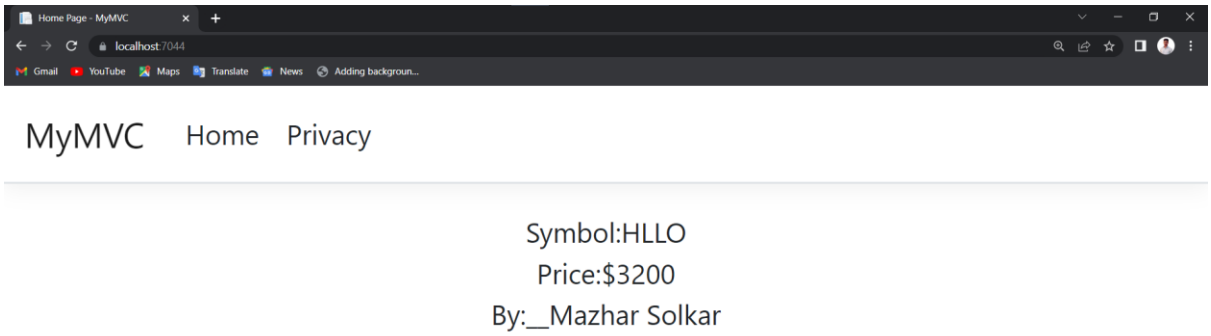
8)Now go to View folder then home folder and modify index.cshtml file to match following

```
@{
    ViewData["Title"] = "Home Page";
}

<div class="text-center">
    Symbol:@Model.Symbol<br/>
    Price:$@Model.Price<br/>
    By:__@Model.By<br/>
</div>
```

9)Now modify HomeController.cs file to match following:

```
using System.Diagnostics;
using Microsoft.AspNetCore.Mvc;
using myMvc.Models;

namespace MyMVC.Controllers;

2 references
public class HomeController : Controller
{
    1 reference
    private readonly ILogger<HomeController> _logger;

    0 references
    public HomeController(ILogger<HomeController> logger)
    {
        _logger = logger;
    }

    0 references
    public IActionResult Index()
    {
        var model = new StockQuote{Symbol="HLLO",Price=3200,By="Mazhar Solkar"};
        return View(model);
    }
}
```

10)Now run the project using

```
C:\0_MSc_IT_Notes\Microservices Architecture\practicals\practical-1\MyMVC>dotnet run
Building...
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: https://localhost:7044
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://localhost:5086
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
      Content root path: C:\0_MSc_IT_Notes\Microservices Architecture\practicals\practical-1\MyMVC\
```

11)Now go back to browser and refresh to get modified view response