**Objective:** To Familiar with MVC framework at .Net Framework.

**Theory:** The Model-View-Controller (MVC) framework is an architectural pattern that separates an application into three main logical components Model, View, and Controller. MVC separates the business logic and presentation layer from each other. It was traditionally used for desktop graphical user interfaces (GUIs). Nowadays, MVC architecture has become popular for designing web applications as well as mobile apps.

**Three important MVC the components are:**

* Model: It includes all the data and its related logic
* View: Present data to the user or handles user interaction
* Controller: An interface between Model and View components

**Group Discussion:**

**Model**

**using System;**

**namespace lab1\_mvc.Models**

**{**

**public class ErrorViewModel**

**{**

**public string RequestId { get; set; }**

**public bool ShowRequestId => !string.IsNullOrEmpty(RequestId);**

**}**

**public class Person {**

**public string name {get;set;}**

**public string address {get;set;}**

**}**

**}**

**Controller:**

**namespace lab1\_mvc.Controllers**

**{**

**public class HomeController : Controller**

**{**

**public IActionResult Index()**

**{**

**var model = new Person();**

**model.name = "gyamzo ";**

**model.address ="swayambhu ";**

**return View(model);**

**}**

**public IActionResult Privacy()**

**{**

**return View();**

**}**

**[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]**

**public IActionResult Error()**

**{**

**return View(new ErrorViewModel { RequestId = Activity.Current?.Id ?? HttpContext.TraceIdentifier });**

**}**

**}**

**}**

**View:**

**@model lab1\_mvc.Models.Person**

**@{**

**ViewData["Title"] = "Home Page";**

**}**

**<div class="text-center">**

**<h1 class="display-4">Welcome</h1>**

**<h2>**

**@Model.name**

**</h2> <br>**

**<h2>**

**@Model.address**

**</h2>**

**</div>**

**Program.cs**

**public class Program**

**{**

**public static void Main(string[] args)**

**{**

**CreateHostBuilder(args).Build().Run();**

**}**

**public static IHostBuilder CreateHostBuilder(string[] args) =>**

**Host.CreateDefaultBuilder(args)**

**.ConfigureWebHostDefaults(webBuilder =>**

**{**

**webBuilder.UseStartup<Startup>();**

**});**

**}**

**Conclusion:**

From this lab we understand MVC and how to use MVC .