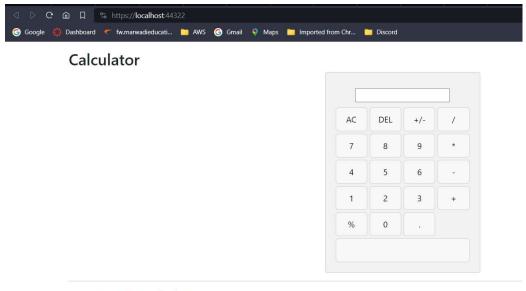
	Marwadi University
Marwadi University	Faculty of Engineering and Technology
Oniversity	Department of Information and Communication Technology
Subject:	Name: Shashank Bagda
.NET Technologies (01CT1518)	
	Enrolment No: 92100133020

# 1. Write a program to show Calculator in Web Application



© 2023 - My ASP.NET Application







Subject:
.NET Technologies
(01CT1518)

Name: Shashank Bagda

**Enrolment No: 92100133020** 

# **Calculator Controllor:**

```
using System;
 using System.Collections.Generic;
 using System.Data;
 using System.Linq;
 using System.Web;
 using System.Web.Mvc;
 namespace Assignment_3.Controllers
     public class CalculatorController : Controller
         public ActionResult Index()
         {
              return View();
         [Httpflost]
         public ActionResult Calculate(string expression)
              double result = 0;
              string cleanedExpression = new DataTable().Compute(expression,
 null).ToString();
              if (double.Tryflarse(cleanedExpression, out result))
              {
             }
              e se
              {V ewBag.Result = result;
V ewBag.ErrorMessagie = "Inval d nput or expresis oin.
                                                                    i
 fllease enter a valid mathematical expression.";
             }
              return View("Index");
         }
     }
 }
```



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#### Index.cshtml

```
@{
    ViewBag_Title = "Calculator";
<h2>Calculator</h2>
<div class="calculator">
    <form method="post" action="@Url.Action("Calculate", "Calculator")">
        <div class="calculator-input">
             <input type="text" name="expression" id="inputField" required>
        </div>
        <div class="calculator-grid">
            <button type="button" onclick="clearInput()">AC</button>
            <button type="button"</pre>
onclick="deleteLastCharacter()">DEL</button>
            <button type="button" onclick="toggleSign()">+/-</button>
            <button type="button" onclick="appendToInput("/")">/</button>
            <button type="button" onclick="appendToInput("7")">7</button>
            <button type="button" onclick="appendToInput("8")">8</button>
            <button type="button" onclick="appendToInput("9")">9</button>
            <button type="button" onclick="appendToInput("*")">*</button>
            <button type="button" onclick="appendToInput(*4*)">4</button>
            <button type="button" onclick="appendToInput("5")">5</button>
            <button type="button" onclick="appendToInput("6")">6</button>
            <button type="button" onclick="appendToInput("-")">-</button>
            <button type="button" onclick="appendToInput(*1*)">1</button>
            <button type="button" onclick="appendToInput("2")">2</button>
            <button type="button" onclick="appendToInput("3")">3</button>
            <button type="button" onclick="appendToInput("+")">+</button>
            <button type="button"</pre>
onclick="calculateflercentage()">%</button>
            <button type="button" onclick="appendToInput("0")">0</button>
<button type="button" onclick="appendToInput(".")">.</button>
            <button type="submit" class="equals-button">=</button>
        </div>
    </form>
    @if (ViewBag.Result != null)
        <script>
            var input = document.getElementById("inputField");
            input.value = @ViewBag.Result;
        </script>
    }
    @if (ViewBag.ErrorMessage != null)
        <div class="calculator-error">
            Error: @ViewBag.ErrorMessage
        </div>
</div>
```



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```
<script>
    function setvalue(value) {
        var input = document.getElementById("inputField");
        input.value=value;
    function appendToInput(value) {
        var input = document.getElementById("inputField");
        input.value += value;
    }
    function clearInput() {
        var input = document.getElementById("inputField");
        input.value = "";
   }
    function deleteLastCharacter() {
        var input = document.getElementById("inputField");
        input.value = input.value.slice(0, -1);
    }
    function toggleSign() {
        var input = document.getElementById("inputField");
        if (input.value.startsWith("-")) {
            input.value = input.value.substr(1);
            input.value = "-" + input.value;
    }
    function calculateflercentage() {
        var input = document.getElementById("inputField");
        input.value = parseFloat(input.value) / 100;
</script>
<style>
    .calculator {
        width: 300px;
        margin: 0 auto;
        text-align: center;
        background-color: #f2f2f2;
        padding: 20px;
        border: 1px solid #ccc;
        border-radius: 5px;
    }
    .calculator-input {
        margin: 10px 0;
    }
    .calculator-grid {
        display: grid;
        grid-template-columns: repeat(4, 1fr);
        grid-gap: 5px;
    }
        .calculator-grid button {
            width: 100%;
            padding: 10px;
            font-size: 16px;
```



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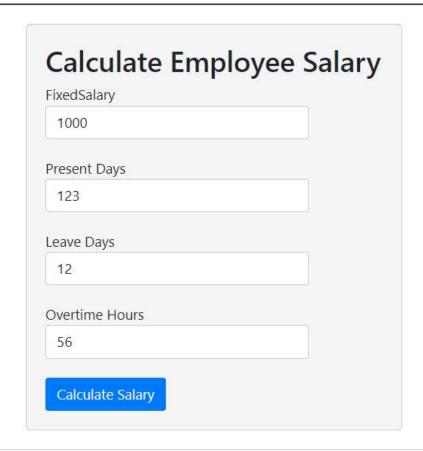
Name: Shashank Bagda

```
background-color: #f8f8f8;
             border: 1px solid #ccc;
             border-radius 5px;
             cursor: pointer;
        }
    .equals-button {
        grid-column: span 4;
        background-color: #ff6600;
        color: white;
        border: none;
        border-radius: 5px;
    }
        .equals-button:hover {
   background-color: #cc5500;
    .calculator-error {
        color: #ff0000;
        margin-top: 10px;
        font-weight: bold;
} </style>
```

• • • • • • • • • • • • • • • • • • •	Marwadi University
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Subject:	Name: Shashank Bagda
.NET Technologies	
(01CT1518)	Enrolment No: 92100133020

2. Write a program to calculate employee's salary based on present days, leave days, fixed salary amount, overtime hours.

Employee Salary Calculation Result		
Basic Salary	\$4,100.00	
Leave Deduction	\$400.00	
Overtime Earnings	\$233.33	
Total Salary	\$3,933.33	





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Faculty of Engineering and Technology

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**Enrolment No: 92100133020** 

## **Salary Controllor**

```
using Assignment_3.Models;
using System;
using System.Collections.Generic;
using System.10;
using System.Linq;
using System.Web;
using System.Web.Mvc;
using OfficeOpenXml;
using OfficeOpenXml.Style;
namespace Assignment_3.Controllers
{
     public class SalaryController : Controller
           public ActionResult CalculateSalary()
           {
                 return View();
           [Httpflost]
           public ActionResult CalculateSalary(EmployeeSalaryModel model)
                if (Mode | State | IsValid)
                {
                      double dailySalary = model.FixedSalary / 30;
                      double hourlyRate = model.FixedSalary / (30 * 8);
                      model.BasicSalary = dailySalary * model.flresentDays;
                      model.LeaveDeduction = dailySalary * model.LeaveDays;
                      model.OvertimeEarnings = hourlyRate * model.OvertimeHours;
                      model.TotalSalary = model.BasicSalary -
model.LeaveDeduction + model.OvertimeEarnings;
                      return View("Result", model);
                }
                 return View(model);
           }
           public ActionResult DownloadExcel(EmployeeSalaryModel model)
                using (var package = new Excelflackage())
                {
                      var worksheet = package.Workbook.Worksheets.Add("Employee
Salary");
                      worksheet.Cells["A1"].Value = "Basic Salary";
                     worksheet.Cells["A1"].Value = "Basic Salary";
worksheet.Cells["B1"].Value = "Leave Deduction";
worksheet.Cells["C1"].Value = "Overtime Earnings";
worksheet.Cells["D1"].Value = "Total Salary";
worksheet.Cells["A2"].Value = model.BasicSalary;
worksheet.Cells["B2"].Value = model.LeaveDeduction;
worksheet.Cells["C2"].Value = model.OvertimeEarnings;
worksheet.Cells["D2"].Value = model.TotalSalary;
worksheet.Cells["A1:D1"].Style.Font.Bold = true;
```



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```
worksheet.Cells["A1:D2"].Style.Border.BorderAround(ExcelBorderStyle.Th in);
                var memoryStream = new MemoryStream();
                package.SaveAs(memoryStream);
                Response Clear();
                Response.ContentType = "application/vnd.openxmlformats-
officedocument.spreadsheetml.sheet";
                Response.AddHeader("content-disposition", "attachment;
filename=EmployeeSalary.xlsx");
                memoryStream.WriteTo(Response.OutputStream);
                Response.Flush();
                Response.End();
           }
            return View("CalculateSalary", model);
       }
    }
SalaryCalculate.cshtml
@model Assignment_3.Models.EmployeeSalaryModel
    ViewBag.Title = "Calculate Salary";
<div class="mycontainer">
    <h2>Calculate Employee Salary</h2>
    @using (Html.BeginForm("CalculateSalary", "Salary", FormMethod.flost))
        <div class="form-group">
            @Html.LabelFor(model => model.FixedSalary)
            @Html.EditorFor(model => model.FixedSalary, new {
htmlAttributes = new { @class = "form-control" } })
            @Html.ValidationMessageFor(model => model.FixedSalary)
        </div>
        <div class="form-group">
            @Html.LabelFor(model => model.flresentDays)
            @Html.EditorFor(model => model.flresentDays, new {
htmlAttributes = new { @class = "form-control" } })
            @Html.ValidationMessageFor(model => model.flresentDays)
        </div>
        <div class="form-group">
            @Html.LabelFor(model => model.LeaveDays)
            = new { @class = "form-control" } })
            <mark>@</mark>Html.ValidationMessageFor(model => model.LeaveDays)
        </div>
        <div class="form-group">
            <mark>@</mark>Html.LabelFor(model => model.OvertimeHours)
            @Html.EditorFor(model => model.OvertimeHours, new {
htmlAttributes = new { @class = "form-control" } })
            @Html.ValidationMessageFor(model => model.OvertimeHours)
        </div>
        <button type="submit" class="btn btn-primary">Calculate
```



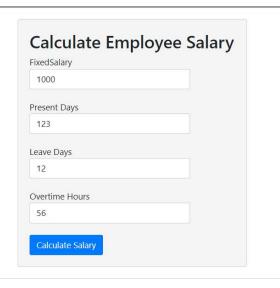
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```
Salary</button>
</div>
<style>
    .mycontainer {
        background-color: #f5f5f5;
        padding: 20px;
        border: 1px solid #ccc;
        border-radius: 5px;
        margin: 20px auto;
        max-width: 400px;
   }
    .form-group {
        margin-bottom: 20px;
    .form-control {
        background-color: #fff;
        border: 1px solid #ccc;
        border-radius: 3px;
   }
    .btn-primary {
        background-color: #007BFF;
        border-color: #007BFF;
        color: #fff;
        border-radius: 3px;
   }
        .btn-primary:hover {
            background-color: #0056b3;
</style>
```

3. Write a program to download (excel) calculated salary in program 10.





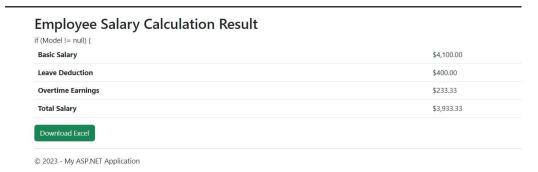
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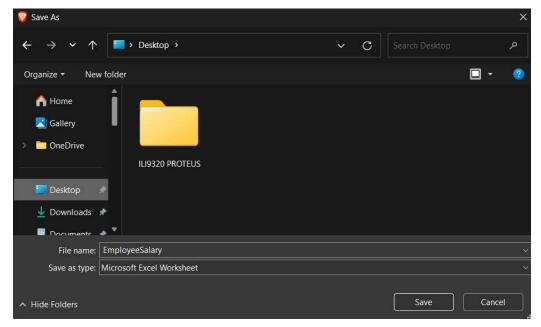
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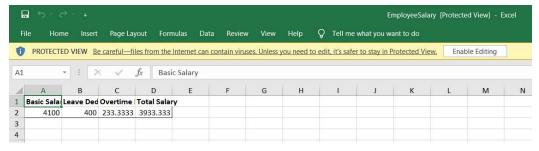
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**Enrolment No: 92100133020** 







# **Salary Controllor**

```
using Assignment_3.Models;
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Web;
using System.Web.Mvc;
using OfficeOpenXml;
using OfficeOpenXml.Style;
namespace Assignment_3.Controllers
{
    public class SalaryController : Controller
```



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```
public ActionResult CalculateSalary()
                    {
                         return View();
                    }
         mode ()
  [Httpflost]
  publ c Act onResult CalculateSalary(EmployeeSalaryModel
  {
        f (ModelStateilsVal d)
                                                   i
       {
                              double dailySalary = model.FixedSalary / 30;
                              double hourlyRate = model.FixedSalary / (30 * 8);
          model.LeaveDays;model.BasicSalary = dailySalary * model.flresentDays;
         mode | LeaveDeduct on = da | ySa|aryi *
model.Overt meEarn ngs = hourlyRatei*
         model.OvertimeHours;
                              model.TotalSalary = model.BasicSalary -
         model.LeaveDeduction + model.OvertimeEarnings;
                              return View("Result", model);
                         }
                         return View(model);
                    }
                    public ActionResult DownloadExcel(EmployeeSalaryModel model)
                    {
                         using (var package = new Excelflackage())
                         {
                              var worksheet =
          package.Workbook.Worksheets.Add("Employee Salary");
                              worksheets.Add( Employee Salary );
worksheet.Cells["A1"].Value = "Basic Salary";
worksheet.Cells["B1"].Value = "Leave Deduction";
worksheet.Cells["C1"].Value = "Overtime Earnings";
worksheet.Cells["D1"].Value = "Total Salary";
worksheet.Cells["A2"].Value = model.BasicSalary;
worksheet.Cells["B2"].Value = model.LeaveDeduction;
worksheet.Cells["C2"].Value =
          model.OvertimeEarnings;
                              worksheet.Cells["D2"].Value = model.TotalSalary;
                              worksheet.Cells["A1:D1"].Style.Font.Bold = true;
         worksheet.Cells["A1:D2"].Style.Border.BorderAround(ExcelBorderStyle.
          Thin);
                              var memoryStream = new MemoryStream();
                              package.SaveAs(memoryStream);
                              Response . Clear();
                              Response_ContentType =
          "application/vnd.openxmlformats-officedocument.spreadsheetml.sheet";
                              Response AddHeader ("content-disposition",
          "attachment; filename=EmployeeSalary.xlsx");
                              memoryStream.WriteTo(Response.OutputStream);
```



Response Flush();

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```
Response End();
            }
            return View("CalculateSalary", model);
        }
    }
}
SalaryCalculate.cshtml
@model Assignment_3.Models.EmployeeSalaryModel
    ViewBag.Title = "Calculate Salary";
<div class="mycontainer">
    <h2>Calculate Employee Salary</h2>
    @using (Html.BeginForm("CalculateSalary", "Salary",
FormMethod.flost))
    {
        <div class="form-group">
            @Html.LabelFor(model => model.FixedSalary)
            @Html.EditorFor(model => model.FixedSalary, new {
htmlAttributes = new { @class = "form-control" } })
            @Html.ValidationMessageFor(model => model.FixedSalary)
        </div>
        <div class="form-group">
            @Html.LabelFor(model => model.flresentDays)
            @Html.EditorFor(model => model.flresentDays, new {
htmlAttributes = new { @class = "form-control" } })
            @Html.ValidationMessageFor(model => model.flresentDays)
        </div>
        <div class="form-group">
            @Html.LabelFor(model => model.LeaveDays)
            @Html.EditorFor(model => model.LeaveDays, new {
htmlAttributes = new { @class = "form-control" } })
            @Html.ValidationMessageFor(model => model.LeaveDays)
        </div>
        <div class="form-group">
            @Html.LabelFor(model => model.OvertimeHours)
            @Html.EditorFor(model => model.OvertimeHours, new {
htmlAttributes = new { @class = "form-control" } })
            @Html.ValidationMessageFor(model => model.OvertimeHours)
        <button type="submit" class="btn btn-primary">Calculate
Salary</button>
</div>
<style>
    .mycontainer {
        background-color: #f5f5f5;
        padding: 20px;
        border: 1px solid #ccc;
                  i
            i
```



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```
border-rad us: 5px;
        marg n: 20px auto;
        max-width: 400px;
   }
    .form-group {
       margin-bottom: 20px;
   }
    .form-control {
        background-color: #fff;
        border: 1px solid #ccc;
        border-radius 3px;
   }
    .btn-primary {
        background-color: #007BFF;
        border-color: #007BFF;
        color: #fff;
        border-radius: 3px;
   }
        .btn-primary:hover {
            background-color: #0056b3;
</style>
```

4. Write a program to generate captcha and validate it.



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# CaptchaControllor

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
using CaptchaMvc.HtmlHelpers;
using Assignment_3.Models;
namespace CaptchaMVC5.Controllers
{
    public class CaptchaController : Controller
        public ActionResult Index()
        {
            return View();
        [Httpflost]
        public ActionResult Index(Registration Registration)
            if (!this.lsCaptchaValid(""))
            {
                ViewBag.ErrMessage = "Captcha is not valid";
                return View("Index", Registration);
            return Content("Captcha is valid");
        }
    }
}
Captcha Index.cshtml
@mode     Assignment_3.Mode     Registration
@using CaptchaMvc_HtmlHelpers
@{
    ViewBag_Title = "Index";
<style>
    body {
        background-color: #f5f5f5;
        font-family: Arial, sans-serif;
    }
    #registration-form {
        max-width: 400px;
        margin: 0 auto;
        padding: 20px;
        background-color: #fff;
        border: 1px solid #ccc;
        border-radius: 5px;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }
    .form-group {
        margin-bottom: 20px;
    }
    .form-control {
        width: 100%;
```



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```
padding: 10px;
        border: 1px solid #ccc;
        border-radius: 3px;
        background-color: #fff;
        font-size: 16px;
   }
    .btn-primary {
        display: block;
       width: 100%;
        padding: 10px;
        background-color: #007BFF;
       border: none;
       border-radius: 3px;
       color: #fff;
       cursor: pointer;
        font-size: 16px;
   }
        .btn-primary:hover {
            background-color: #0056b3;
    .captcha {
       display: flex;
       align-items: center;
        justify-content: space-between;
   }
        .captcha img {
            border: 1px solid #ccc;
            border-radius: 3px;
</style>
@using (Html.BeginForm("Index", "Captcha", new { enctype =
"multipart/form-data", id = "Captcha" }))
   @Html.ValidationSummary(true)
   <fieldset>
        <legend>Registration
        <div class="form-group">
            <label>Username</label>
            <div>
                @Html.TextBoxFor(N => N.UserName, new
                    @id = "UserName",
                    @class = "form-control",
                    @placeholder = "Username",
                    required = "required"
                })
            </div>
        </div>
        <div class="form-group">
            <label>flassword
            @Html.flasswordFor(N => N.flassword, new
            {
```

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- 5. Write a program to allow user to provide inputs and send email to specified addressin inputs which as follows:
  - A) To Email:
  - B) CC Email:
  - C) BCC Email:
  - D) Subject:
  - E) Body:

Note: Buttons to be provided to Send, Reset inputs.



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Name: Shashank Bagda

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### **EmailControllor**

```
using Assignment_3.Models;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Net.Mail;
using System.Net;
using System.Web;
using System.Web.Mvc;
namespace Assignment_3.Controllers
{
    public class EmailController : Controller
        public ActionResult Compose()
        {
            return View();
        [Httpflost]
        [ValidateAntiForgeryToken]
        public ActionResult Compose(EmailModel model)
            if (ModelState.IsValid)
                using (var message = new MailMessage())
                    message.To.Add(model.ToEmail);
                    if (!string.lsNullOrWhiteSpace(model.CCEmail))
                        message.CC.Add(model.CCEmail);
                    if (!string.lsNullOrWhiteSpace(model.BCCEmail))
                        message_Bcc_Add(model_BCCEmail);
                    message.Subject = model.Subject;
                    message.Body = model.Body;
                    message.lsBodyHtml = true;
                    using (SmtpClient smtpClient = new
SmtpClient("smtp.gmail.com"))
                        smtpClient.flort = 587;
                        smtpClient.Credentials = new
NetworkCredential("d11javiya@gmail.com", "zubz hxce pucu jchv");
                        smtpClient.EnableSsl = true;
                        smtpClient.Send(message);
                        Console.WriteLine("Email sent successfully.");
                    }
                }
                ViewBag.SuccessMessage = "Email sent successfully!";
                ModelState.Clear();
            }
            return View(model);
        }
    }
```



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```
}
EmailCompose.cshtml
@mode  Assignment_3.Mode s.EmailMode
    ViewBag.Title = "Compose Email";
<h2>Compose Email</h2>
@using (Html.BeginForm("Compose", "Email", FormMethod.flost, new { enctype
= "multipart/form-data" }))
{
    @Html.AntiForgeryToken()
    <div class="form-group">
        @Html.LabelFor(model => model.ToEmail)
        @Html.TextBoxFor(model => model.ToEmail, new { @class = "form-
control"_})
        @Html.ValidationMessageFor(model => model.ToEmail)
    </div>
    <div class="form-group">
        <mark>@</mark>Html.LabelFor(model => model.CCEmail)
        <mark>@</mark>Html.TextBoxFor(model => model.CCEmail, new {    @class = "form-
control"
        @Html.ValidationMessageFor(model => model.CCEmail)
    </div>
    <div class="form-group">
        @Html.LabelFor(model => model.BCCEmail)
        @Html.TextBoxFor(model => model.BCCEmail, new { @class = "form-
control"_})
        @Html.ValidationMessageFor(model => model.BCCEmail)
    </div>
    <div class="form-group">
        @Html.Labe|For(mode| => mode|.Subject)
        @Html.TextBoxFor(model => model.Subject, new { @class = "form-
        @Html.ValidationMessageFor(model => model.Subject)
    </div>
    <div class="form-group">
        @Html.LabelFor(model => model.Body)
        @Html.TextAreaFor(model => model.Body, new { @class = "form-
control"})
        @Html.ValidationMessageFor(model => model.Body)
    <button type="submit" class="btn btn-primary">Send Email/button>
    if (ViewBag_SuccessMessage != null)
    {
        @ViewBag.SuccessMessage
}
```



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**Enrolment No: 92100133020** 

```
<style>
    .email-form {
        max-width: 400px;
        margin: 0 auto;
        padding: 20px;
        background-color: #fff;
        border: 1px solid #ccc;
        border-radius: 5px;
   }
    .form-group {
        margin-bottom: 20px;
    }
    .form-control {
        background-color: #f5f5f5;
        border: 1px solid #ccc;
        border-radius: 3px;
        padding: 10px;
        font-size: 16px;
   }
    .btn-primary {
        background-color: #007BFF;
        border-color: #007BFF;
        color: #fff;
        border-radius: 3px;
        padding: 10px 20px;
        cursor: pointer;
   }
        .btn-primary:hover {
            background-color: #0056b3;
</style>
```

6. Write a program to perform Insert update delete operations on Tables specified in SQL assignments.

### **EmployeeController**



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```
public ActionResult Details(int id)
{
         Assignment1Entities assignment1Entities = new
Assignment1Entities();
         var myRec =
         assignment1Entities.t_Employee.FirstOrDefault(x => x.Employeeld == id); if (myRec != null)
         {
                return View(myRec);
          }
          return View(myRec);
}

public ActionResult Create()
{
          return View();
}
[Httpflost]
public ActionResult Create(t_Employee t_Employee)
{
          if (ModelState.lsValid)
```



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```
{
                try
                {
                    Assignment1Entities assignment1Entities = new
                    Assignment1Entities();
                    assignment1Entities.t_Employee.Add(t_Employee);
                    assignment1Entities.SaveChanges(); return
                    RedirectToAction("Index");
                }
                catch
                {
                     return View();
            return RedirectToAction("Index");
        public ActionResult Edit(int id)
            Assignment1Entities assignment1Entities = new
Assignment1Entities();
            var myRec =
assignment1Entities.t_Employee.FirstOrDefault(x => x.Employeeld ==
            id); if (myRec != null)
            {
                return View(myRec);
            return RedirectToAction("Index");
        [Httpflost]
        public ActionResult Edit(int id, t_Employee t_Employee)
            if (ModelState.IsValid)
            {
                try
                {
                    Assignment1Entities assignment1Entities = new
                    Assignment1Entities();
                    var myRec =
```



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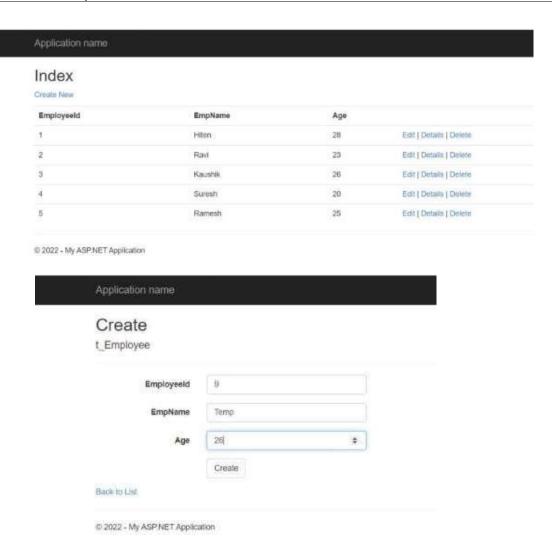
Name: Shashank Bagda

```
assignment1Entities.t_Employee.FirstOrDefault(x =>
                    x.Employeeld == id);
                    if (myRec == null)
                     {
                         return RedirectToAction("Index");
                    myRec.Employeeld = t_Employee.Employeeld;
                    myRec_EmpName = t_Employee_EmpName;
                    myRec.Age = t_Employee.Age;
                    assignment1Entities.SaveChanges(); return
                    RedirectToAction("Index");
                }
                catch
                {
                     return View();
            return RedirectToAction("Index");
        public ActionResult Delete(int id)
            Assignment1Entities assignment1Entities = new
Assignment1Entities();
            var myRec =
assignment1Entities.t_Employee.FirstOrDefault(x => x.Employeeld ==
            id); if (myRec != null)
                return View(myRec);
            return RedirectToAction("Index");
        [Httpflost]
        public ActionResult Delete(int id, t_Employee t_Employee)
            try
            {
                Assignment1Entities assignment1Entities = new
                Assignment1Entities();
                var myRec =
assignment1Entities.t_Employee.FirstOrDefault(x =>
                x.Employeeld == id);
                if (myRec == null)
                {
                     return RedirectToAction("Index");
                }
                assignment1Entities.t Employee.Remove(myRec);
                assignment1Entities.SaveChanges(); return
                RedirectToAction("Index");
            }
            catch
            {
                return View();
            return RedirectToAction("Index");
        }
   }
}
```



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