

PRACTICAL 7

Aim: Develop ASP.NET Core MVC application with following functionalities:

- **Create model class “Employee”**
- **Create extension method**
- **Use extension method**

Code:

HomeController.cs : (Controllers / HomeController.cs)

```
using System.Diagnostics;
using Microsoft.AspNetCore.Mvc;
using PRACTICAL7.Models;
using PRACTICAL7.Extensions;
namespace PRACTICAL7.Controllers;
public class HomeController : Controller
{
    private readonly ILogger<HomeController> _logger;
    public HomeController(ILogger<HomeController> logger)
    {
        _logger = logger;
    }
    public IActionResult Index()
    {
        var employee = new Employee(1, "Gustavo Fring", 50000m);
        var annualSalary = employee.CalculateAnnualSalary();
        ViewBag.AnnualSalary = annualSalary;
        return View(employee);
    }
    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 });
    }
}
```

Employee.cs : (Models / Employee.cs)

```
namespace PRACTICAL7.Models {  
    public class Employee {  
        public int Id { get; set; }  
        public string Name { get; set; } = string.Empty;  
        public decimal Salary { get; set; }  
        public Employee(int id, string name, decimal salary) {  
            Id = id;  
            Name = name;  
            Salary = salary;  
        }  
    }  
}
```

EmployeeExtensions.cs : (Extensions / EmployeeExtensions.cs)

```
using PRACTICAL7.Models;  
namespace PRACTICAL7.Extensions {  
    public static class EmployeeExtensions {  
        public static decimal CalculateAnnualSalary(this Employee employee) {  
            return employee.Salary * 12;  
        }  
    }  
}
```

Index.cshtml : (Views / Home / Index.cshtml)

@model PRACTICAL7.Models.Employee

<style>

```
.table-container {  
    width: 50%;  
    margin: 0 auto;  
}  
table {  
    width: 100%;  
    border-collapse: collapse;  
    background-color: #fff;  
    border-radius: 10px;  
    box-shadow: 0 0 15px rgba(0, 0, 0, 0.1);  
}  
th, td {  
    border: 1px solid #ddd;  
    padding: 12px;  
    text-align: center;  
}  
th {
```

```
        background-color: lightgrey;
        font-weight: bold;
        font-size: 18px;
        color: #333
    }
    tbody tr:nth-child(even) {
        background-color: #f2f2f2;
    }
    td {
        font-size: 16px;
        color: #555;
    }
</style>
<center>
<div class="table-container">
    <h2>Employee Details</h2>
    <table>
        <thead>
            <tr>
                <th>Property</th>
                <th>Value</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td>Id</td>
                <td>@Model.Id</td>
            </tr>
            <tr>
                <td>Name</td>
                <td>@Model.Name</td>
            </tr>
            <tr>
                <td>Monthly Salary</td>
                <td>@Model.Salary.ToString("C")</td>
            </tr>
            <tr>
                <td>Annual Salary</td>
                <td>@ViewBag.AnnualSalary.ToString("C")</td>
            </tr>
        </tbody>
    </table>
</div></center>
```

Output:

- PRACTICAL7

localhost:5003

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Home

Privacy

Employee Details

Property	Value
Id	1
Name	Gustavo Fring
Monthly Salary	\$50,000.00
Annual Salary	\$600,000.00

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