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BRANCH :- MCA (SEM - 2).

SUBJECT :- ASP.NET ASSIGNMENT – 1 (PRACTICAL).

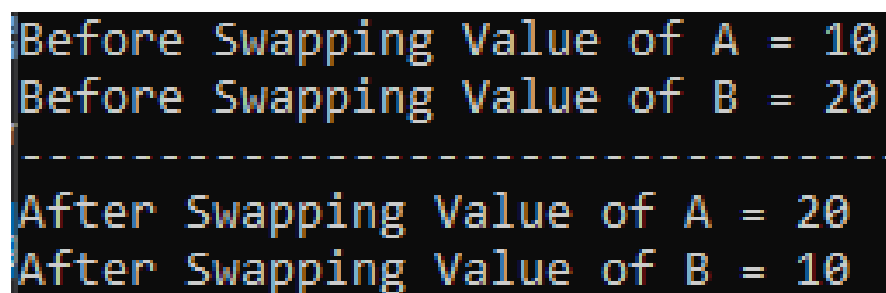
1. Create Console Application to Swap Two Numbers Using Third Variable And Without Using Third Variable.

❖ *Swapping Using Third Variable.*

CODE :-

```
using System;
namespace swap
{
    class Program
    {
        static void Main (string [] args)
        {
            int a = 10, b = 20, c;
            Console.WriteLine("Before Swapping Value of A = " + a);
            Console.WriteLine("Before Swapping Value of B = " + b);
            Console.WriteLine("-----");
            c = a;
            a = b;
            b = c;
            Console.WriteLine("After Swapping Value of A = " + a);
            Console.WriteLine("After Swapping Value of B = " + b);
            Console.Read();
        }
    }
}
```

OUTPUT :-



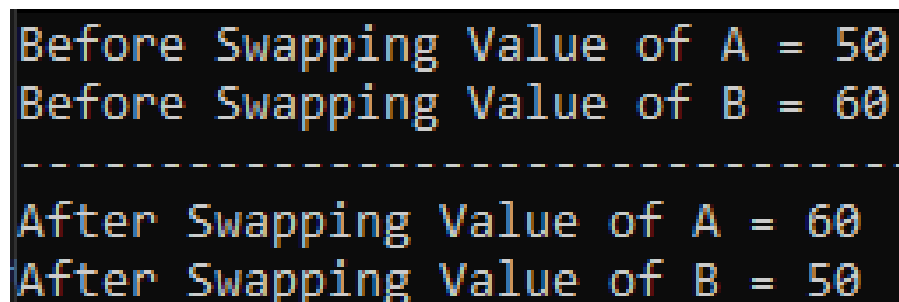
```
Before Swapping Value of A = 10
Before Swapping Value of B = 20
-----
After Swapping Value of A = 20
After Swapping Value of B = 10
```

❖ *Swapping Without Using Third Variable.*

CODE :-

```
using System;
namespace swap
{
    class Program
    {
        static void Main (string [] args)
        {
            int a = 50, b = 60;
            Console.WriteLine("Before Swapping Value of A = " + a);
            Console.WriteLine("Before Swapping Value of B = " + b);
            Console.WriteLine("-----");
            a = a + b;
            b = a - b;
            a = a - b;
            Console.WriteLine("After Swapping Value of A = " + a);
            Console.WriteLine("After Swapping Value of B = " + b);
            Console.Read();
        }
    }
}
```

OUTPUT :-

A screenshot of a terminal window showing the output of the C# program. The text is displayed in a monospaced font with a light blue/cyan color on a black background. The output shows the values of variables A and B before and after a swap operation, with a dashed line separating the 'before' and 'after' states.

```
Before Swapping Value of A = 50
Before Swapping Value of B = 60
-----
After Swapping Value of A = 60
After Swapping Value of B = 50
```

2. Create a console application to perform simple calculator.

CODE :-

```
using System;
namespace cal1
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Please Enter first number: ");
            int num1 = Convert.ToInt32(Console.ReadLine());

            Console.WriteLine("Please Enter second number: ");
            int num2 = Convert.ToInt32(Console.ReadLine());

            Console.WriteLine("Press 1 for Addition");
            Console.WriteLine("Press 2 for Subtraction");
            Console.WriteLine("Press 3 for Multiplication");
            Console.WriteLine("Press 4 for Division");

            Console.WriteLine("Please Enter Your Choice: ");
            int ch = Convert.ToInt32(Console.ReadLine());
            int res = 0;

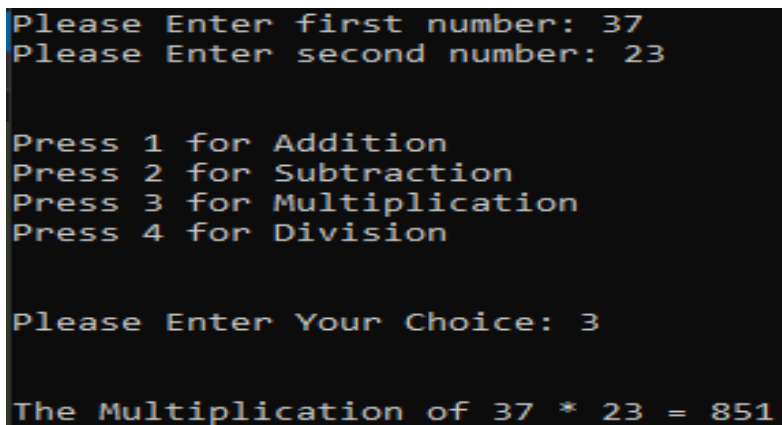
            switch(ch)
            {
                case 1:
                {
                    res = num1 + num2;
                    Console.WriteLine("The Addition of " + num1 + " + " + num2
                        + " = " + res);
                    break;
                }
                case 2:
                {
                    res = num1 - num2;
```

```

        Console.WriteLine("The Subtraction of " + num1 + " - " +
            num2 + " = " + res);
        break;
    }
    case 3:
    {
        res = num1 * num2;
        Console.WriteLine("The Multiplication of " + num1 + " * " +
            num2 + " = " + res);
        break;
    }
    case 4:
    {
        res = num1 / num2;
        Console.WriteLine("The Division of " + num1 + " / " + num2
            + " = " + res);
        break;
    }
    default:
    {
        Console.WriteLine("Please Enter valid Choice");
        break;
    }
}
Console.Read();
}
}
}

```

OUTPUT :-



```

Please Enter first number: 37
Please Enter second number: 23

Press 1 for Addition
Press 2 for Subtraction
Press 3 for Multiplication
Press 4 for Division

Please Enter Your Choice: 3

The Multiplication of 37 * 23 = 851

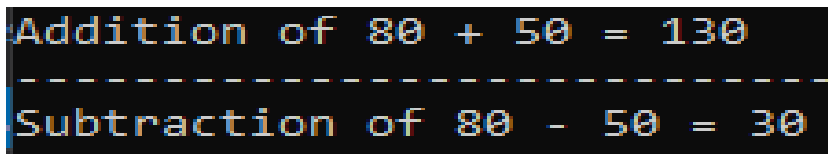
```

3. Create Class and Object of that Class to call Class function in Console Application.

CODE :-

```
using System;
namespace func
{
    class operation
    {
        public void add(int x, int y)
        {
            int z;
            z = x + y;
            Console.WriteLine("Addition of " + x + " + " + y + " = " + z);
        }
        public void subtract(int x, int y)
        {
            int z;
            z = x - y;
            Console.WriteLine("Subtraction of " + x + " - " + y + " = " + z);
        }
    }
    class Program
    {
        static void Main(string[] args)
        {
            int a = 80, b = 50;
            operation op = new operation();
            op.add(a, b);
            Console.WriteLine("-----");
            op.subtract(a, b);
            Console.Read();
        }
    }
}
```

OUTPUT :-



```
Addition of 80 + 50 = 130
-----
Subtraction of 80 - 50 = 30
```

4. Create web application to perform simple calculator using MVC with design.

CODE :-

calc.cs :-

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
```

```
namespace calculator.Models
{
    public class calc
    {
        public int num1 { get; set; }
        public int num2 { get; set; }
        public int total { get; set; }
    }
}
```

CalcController.cs :-

```
using calculator.Models;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
```

```
namespace calculator.Controllers
{
    public class CalcController : Controller
    {
        public ActionResult Index()
        {
            return View(new calc());
        }
        [HttpPost]
        public ActionResult Index(calc c,string calculate)
        {

```

```

        if(calculate == "Addition")
        {
            c.total = c.num1 + c.num2;
        }
        else if (calculate == "Subtraction")
        {
            c.total = c.num1 - c.num2;
        }
        else if (calculate == "Multiplication")
        {
            c.total = c.num1 * c.num2;
        }
        else
        {
            c.total = c.num1 / c.num2;
        }
        return View(c);
    }
}
}

```

Index.cshtml :-

```

@model calculator.Models.calc
@{
    ViewBag.Title = "Index";
}

```

```

<html>
<body>
    <center>
        <h2>Calculator</h2>
        @using (Html.BeginForm("/Index", "calc", FormMethod.Post))
        {
            <table border="1">
                <tr>
                    <td><b>Number 1 : </b></td>
                    <td>
                        <input type="number" id="num1" name="num1"
                            value="@Model.num1" />
                    </td>
                </tr>
                <tr>
                    <td><b>Number 2 : </b></td>

```



```

        <td>
            <input type="number" id="num2" name="num2"
                value="@Model.num2" />
        </td>
    </tr>
    <tr>
        <td><b>Total : </b></td>
        <td>
            <input type="number" id="total" name="total"
                value="@Model.total" disabled />
        </td>
    </tr>
    <tr>
        <td colspan="4">
            <button type="submit" id="add" value="Addition"
                name="calculate"><b> + </b></button>
            <button type="submit" id="sub" value="Subtraction"
                name="calculate"><b> - </b></button>
            <button type="submit" id="mul" value="Multiplication"
                name="calculate"><b> * </b></button>
            <button type="submit" id="div" value="Division"
                name="calculate"><b> / </b></button>
        </td>
    </tr>
</table>
}
</center>
</body>
</html>

```

OUTPUT :-

Calculator	
Number 1 :	13
Number 2 :	12
Total :	156
+	-
*	/

5. Create web application to perform registration and login page with design.

CODE :-

UserModel.cs :-

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

namespace Register_Login.Models
{
    public class UserModel
    {
        public int id { get; set; }
        public string Name { get; set; }
        public string Password { get; set; }
        public int Phone { get; set; }
        public string City { get; set; }
    }
}
```

HomeController.cs :-

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;

namespace Register_Login.Controllers
{
    public class HomeController : Controller
    {
        // GET: Home
        public ActionResult Register()
        {
            return View();
        }
        public ActionResult Login()
        {

```

```

        return View();
    }
}
}

```

Register.cshtml :-

```

@model Register_Login.Models.UserModel
@{
    ViewBag.Title = "Register";
}

```

```

<h2>Register</h2>
<html>
<body>
<div class="navbar navbar-inverse navbar-fixed-top">
    <div class="navbar-collapse collapse">
        <ul class="nav navbar-nav">
            <li>
                @Html.ActionLink("Register", "Register", "Home", null, null)
            </li>
            <li>
                @Html.ActionLink("Login", "Login", "Home", null, null)
            </li>
        </ul>
    </div>
</div>
<form>
    <table border="1">
        <tr>
            <td>User Id : </td>
            <td>
                <input type="text" id="uid" name="uid" />
            </td>
        </tr>
        <tr>
            <td>Name : </td>
            <td>
                <input type="text" id="name" name="name" />
            </td>
        </tr>
        <tr>
            <td>Password : </td>
            <td>

```

```

        <input type="password" id="pass" name="pass" />
    </td>
</tr>
<tr>
    <td>Phone : </td>
    <td>
        <input type="number" id="phone" name="phone" />
    </td>
</tr>
<tr>
    <td>City : </td>
    <td>
        <input type="text" id="city" name="city" />
    </td>
</tr>
<tr>
    <td colspan="2" style="text-align:center">
        <input type="submit" value="Register" />
    </td>
</tr>
</table>
</form>
</body>
</html>

```

Login.cshtml :-

```

@model Register_Login.Models.UserModel
@{
    ViewBag.Title = "Login";
}

```

```

<h2>Login</h2>
<html>
<body>
    <div class="navbar navbar-inverse navbar-fixed-top">
        <div class="navbar-collapse collapse">
            <ul class="nav navbar-nav">
                <li>
                    @Html.ActionLink("Register", "Register", "Home", null, null)
                </li>
                <li>
                    @Html.ActionLink("Login", "Login", "Home", null, null)
                </li>
            </ul>
        </div>
    </div>

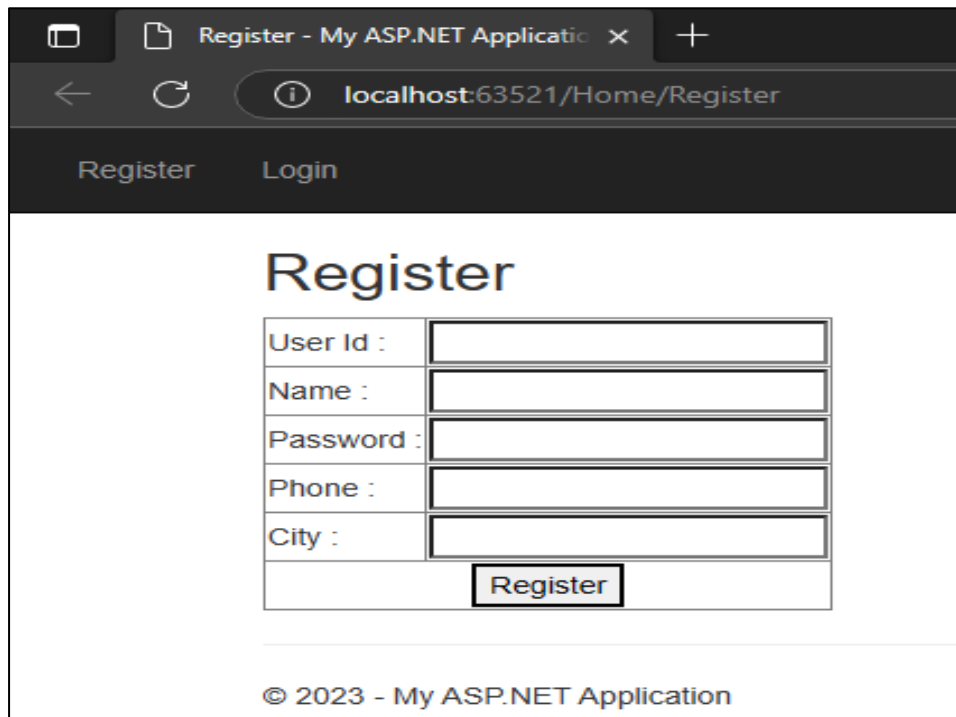
```

```
        </ul>
    </div>
</div>
<form>
    <table border="1">
        <tr>
            <td>User Id : </td>
            <td>
                <input type="text" id="uid" name="uid" />
            </td>
        </tr>

        <tr>
            <td>Password : </td>
            <td>
                <input type="password" id="pass" name="pass" />
            </td>
        </tr>

        <tr>
            <td colspan="2" style="text-align:center">
                <input type="submit" value="Login" />
            </td>
        </tr>
    </table>
</form>
</body>
</html>
```

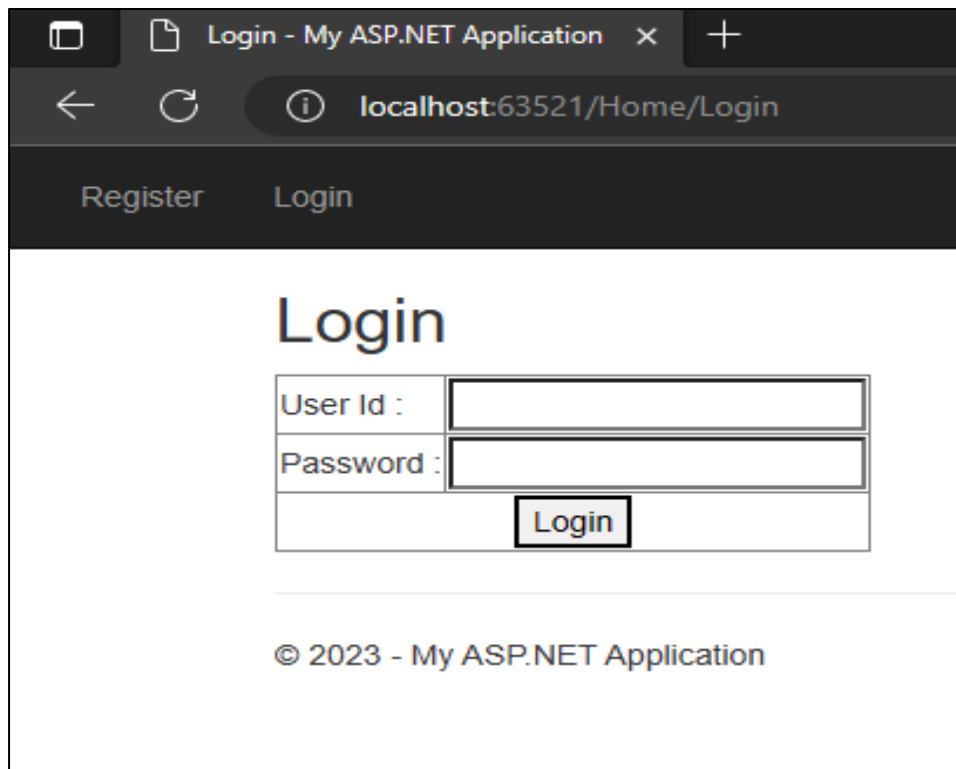
OUTPUT :-



The screenshot shows a web browser window with the title "Register - My ASP.NET Application". The address bar displays "localhost:63521/Home/Register". The page has a dark header with "Register" and "Login" links. The main content area features a "Register" heading and a form with the following fields: "User Id :", "Name :", "Password :", "Phone :", and "City :". Each field is followed by a text input box. Below these fields is a "Register" button. At the bottom of the page, there is a copyright notice: "© 2023 - My ASP.NET Application".

User Id :	<input type="text"/>
Name :	<input type="text"/>
Password :	<input type="password"/>
Phone :	<input type="text"/>
City :	<input type="text"/>
<input type="button" value="Register"/>	

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The screenshot shows a web browser window with the title "Login - My ASP.NET Application". The address bar displays "localhost:63521/Home/Login". The page has a dark header with "Register" and "Login" links. The main content area features a "Login" heading and a form with the following fields: "User Id :" and "Password :". Each field is followed by a text input box. Below these fields is a "Login" button. At the bottom of the page, there is a copyright notice: "© 2023 - My ASP.NET Application".

User Id :	<input type="text"/>
Password :	<input type="password"/>
<input type="button" value="Login"/>	

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