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**BRANCH :- MCA (SEM - 2).**

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

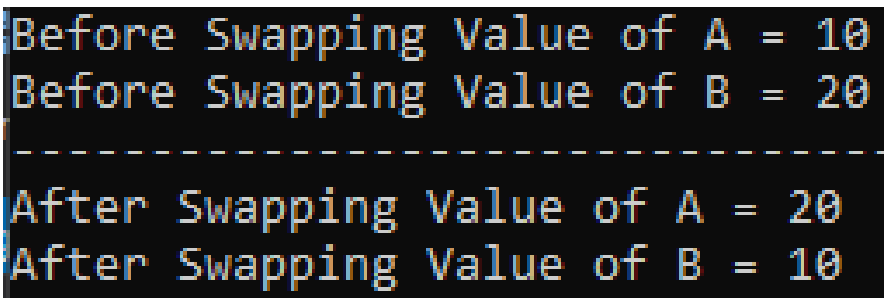
**1.** Create Console Application to Swap Two Numbers Using Third Variable And Without Using Third Variable.

### ❖ *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 :-*

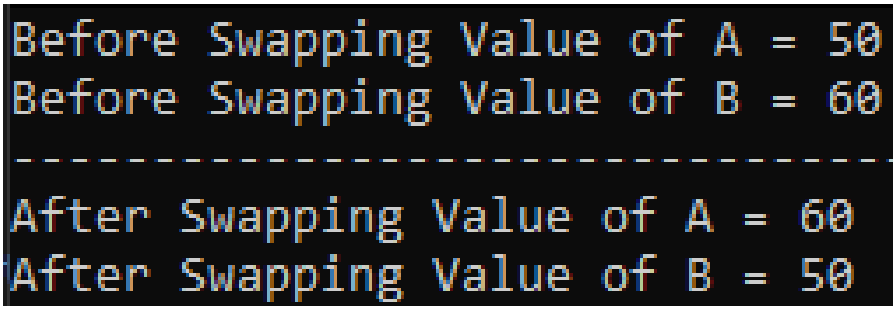


## ❖ *Swapping Without Using Third Variable.*

***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 :-***



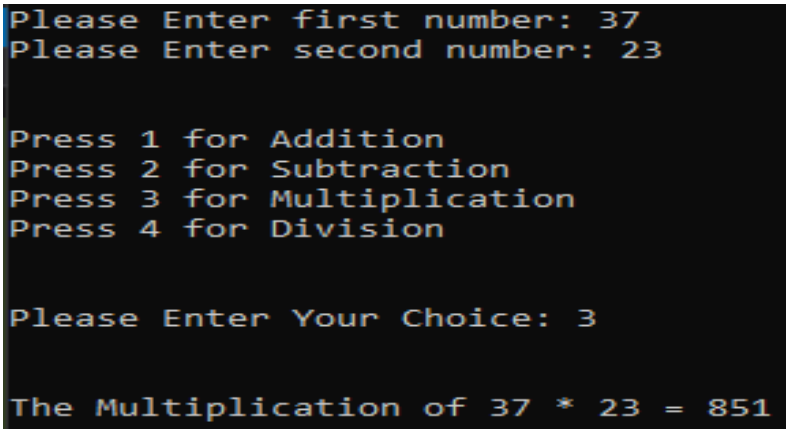
## *2.* Create a console application to perform simple calculator.

***CODE :-***

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

         Console.Write("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.Write("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 :-***

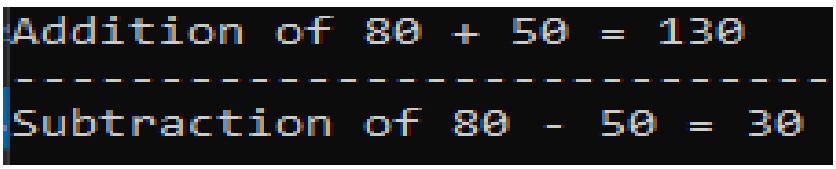


*3.* Create Class and Object of that Class to call Class function in Console Application.

***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 :-*



## 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)
      {
```

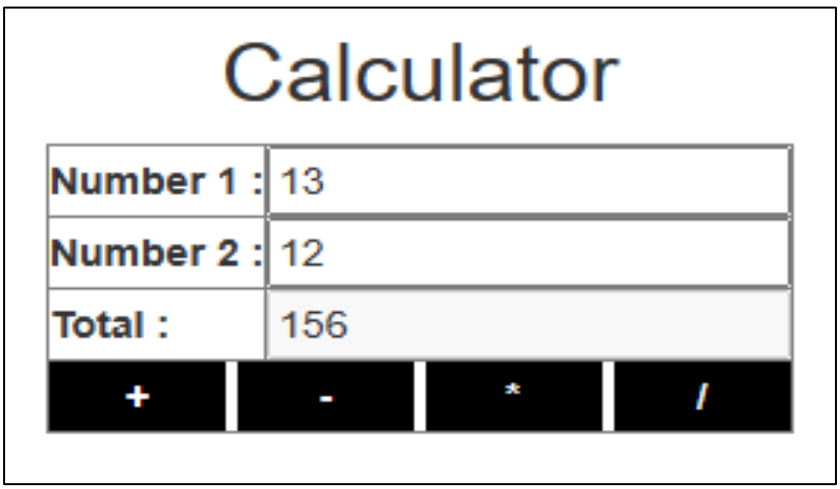
```
        if(calculate == "Addition")
        {
           c.total = c.num1 + c.num2;
        }
        else if (calculate == "Subtraction")
        {
           c.total = c.num1 - c.num2;
        }
        else if (calculate == "Multiplication")
        {
           c.total = c.num1 * c.num2;
   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



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>
```

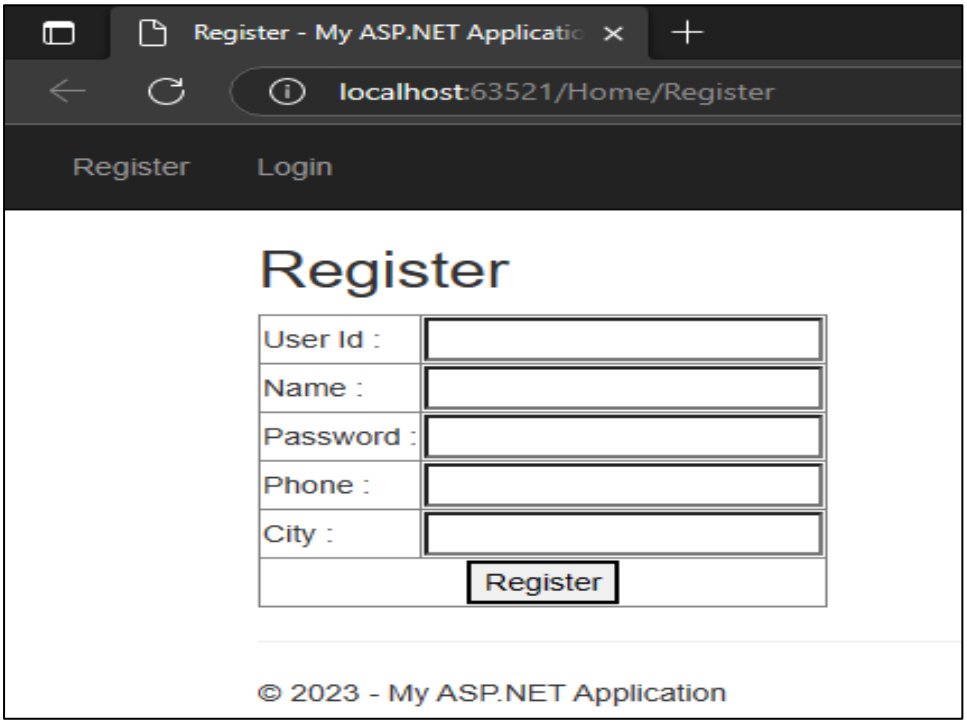
```
            <input type="password" id="pass" name="pass" />
          </td>
        </tr>
        <tr>
          <td>Phone : </td>
          <td>
            <input type="number" id="phone" name="phone" />
          </td>
        </tr>
        <tr>
          <td>City : </td>
          <td>
            <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>
```

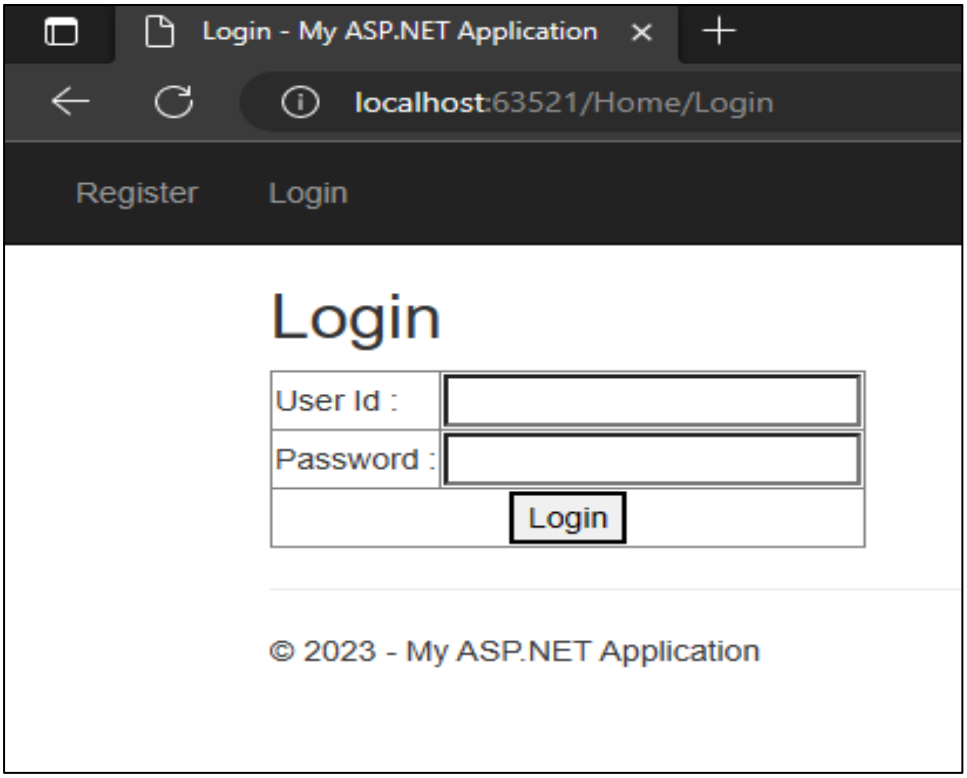
## *Login.cshtml :-*

```
@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>
    <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 :-*


Register - My ASP.NET Applicatio
localhost:63521/Home/Register
Register
Login
Register
User Id :
Name :
Password :
Phone :
City :
Register
© 2023 - My ASP.NET Application


Login - My ASP.NET Application
localhost:63521/Home/Login
Register
Login
Login
User Id :
Password :
Login
© 2023 - My ASP.NET Application