**Name:**

**Enrolment Number:**

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| **Task\_1** | Rearrange the given file “OddEven.cs” code to generate the following output.  **Expected Output:**  Enter Number: 10  Number is Even  OR  **Expected Output:**  Enter Number: 9  Number is Odd |
| **ANS** | using System;  namespace ConsoleApplication1  {  class OddEven  {  static void Main(string[] args)  {  Console.WriteLine("Enter Number : ");  string str = Console.ReadLine();  int x;  x = Convert.ToInt32(str);  if (x % 2 == 0)  Console.WriteLine("Number is Even");  else  Console.WriteLine("Number is Odd");  }  }  } |
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| **Task\_2** | Rearrange the given code given in “ArrayTest.cs” file to correct the program. The resultant program will be to enter 5 elements into an array and print sum of these elements.  **Expected output:**  Enter Element 0: 1  Enter Element 1: 2  Enter Element 2: 3  Enter Element 3: 4  Enter Element 4: 5  Sum of Elements : 15 |
| **ANS** | using System;  namespace TSEE\_Mock  {  class ArrayTest  {  static void Main(string[] args)  {  int[] arr = new int[5];  int sum = 0;  for (int i = 0; i < 5; i++)  {  Console.Write("Enter Element {0}: ", i);  string str = Console.ReadLine();  arr[i] = Convert.ToInt32(str);  }  for (int i = 0; i < 5; i++)  {  sum = sum + arr[i];  }  Console.WriteLine("Sum of Elements : {0}",sum);  Console.Read();  }    }  } |
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| **Task\_3** | Design and write code for Calculator form in attached project “ShoppingMallSystem”. |
| **ANS** | using System;  using System.Collections.Generic;  using System.ComponentModel;  using System.Data;  using System.Drawing;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using System.Windows.Forms;  namespace ShoppingMallSystem  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  private void buttonSum\_Click(object sender, EventArgs e)  {  int num1, num2, result;  num1 = Convert.ToInt32(textBox1.Text);  num2 = Convert.ToInt32(textBox2.Text);  result = num1 + num2;  textBox3.Text = result.ToString();  }  }  } |
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| **Task\_4** | Locate “EmployeeDemo.cs” file. Modify class named “Employee”. Add following members into Employee class.  **Data Members:**  ID, Name, Email, Country  **Methods:**  SetData( ) - To enter details for an employee  Display( ) – To display details for an employee |
| **ANS** | using System;  namespace MockTest  {  class Employee  {  private int id;  private string name, email, country;  public void setData()  {  Console.Write("Enter ID: ");  this.id = Convert.ToInt32(Console.ReadLine());  Console.Write("Enter Name: ");  this.name = Console.ReadLine();  Console.Write("Enter Email: ");  this.email = Console.ReadLine();  Console.Write("Enter Country: ");  this.country = Console.ReadLine();  }  public void display()  {  Console.WriteLine("ID: {0}", this.id);  Console.WriteLine("Name: {0}", this.name);  Console.WriteLine("Email: {0}", this.email);  Console.WriteLine("Country: {0}", this.country);  }    }  class EmployeeDemo  {  public static void Main(string[] args)  {  Employee e = new Employee();  e.setData();  e.display();      }    }  } |
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| **Task\_5** | Design a Profile Form like below. When user click on Send Message Button it will display combine message like below on label:“Message of <<Name>> from <<Organization>> with <<comment>>” |
| **ANS** | using System;  using System.Collections.Generic;  using System.ComponentModel;  using System.Data;  using System.Drawing;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using System.Windows.Forms;  using System.Xml.Linq;  namespace ShoppingMallSystem  {  public partial class Profile : Form  {  public Profile()  {  InitializeComponent();  }  private void button1\_Click(object sender, EventArgs e)  {  String name, comment, organization;  name = textBoxName.Text;  comment = textBoxComment.Text;  organization = textBoxOrganization.Text;  LabelMessageShow.Text = String.Format("Message of {0} from {1} with {2}", name, comment, organization);  }  }  } |
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| **Task\_6** | Locate “ExceptionDemo.cs” file. This program will throw an exception. Add try, catch and finally blocks to handle this exception. |
| **ANS** | using System;  class MyClient  {  public static void Main()  {  try  {  int x = 0;  int div = 100/x;  Console.WriteLine(div);  }  catch (DivideByZeroException)  {    Console.WriteLine("Try to Divide By Zero");  }  finally  {  global::System.Console.WriteLine("The Finall Block Will always Execute");  }  }  } |
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| **Task\_7** | Write Swap function into “Swap.cs" file by referring the the given code. |
| **ANS** | using System;  namespace CalculatorApplication  {  class NumberManipulator  {  /\*  Write swap function for the given code  \*/  public void swap(ref int a, ref int b)  {  int c = a;  a = b;  b = c;  }  }  class TestRef  {  static void Main(string[] args)  {  NumberManipulator n = new NumberManipulator();  /\* local variable definition \*/  int a = 100;  int b = 200;  Console.WriteLine("Before swap, value of a : {0}", a);  Console.WriteLine("Before swap, value of b : {0}", b);  /\* calling a function to swap the values \*/  n.swap(ref a, ref b);  Console.WriteLine("After swap, value of a : {0}", a);  Console.WriteLine("After swap, value of b : {0}", b);  Console.ReadLine();  }  }  } |
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| **Task\_8** | Write missing statements into “CmdTest.cs” file to get the desired output.  Output:  -------------------  Hello, World!  You entered the following 4 command line arguments:  A  B  C  D |
| **ANS** | using System;  public class Hello3  {  public static void Main(string[] args)  {  Console.WriteLine("Hello, World!");  Console.WriteLine("You entered the following {0} command line arguments:", args.Length );  foreach(string arg in args)  {  Console.WriteLine(arg);  }  }  } |
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