Marwadi University

FACULTY OF TECHNOLOGY

Computer Engineering 01CE0507 – Image Processing - Lab Manual

.Net Technology (01CE0602) Department of Computer Engineering 6th Semester

Lab Manual

(Year: 2022-23)



Computer Engineering 01CE0507 – Image Processing - Lab Manual

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Lab	Programs	Date	Signature
1	a. Write a C# Program to print "Hello		
	World".		
	b. Write a C# Program to add 2 Numbers.		
	c. Write a C# Program to find maximum of 2		
	Numbers. d. Write a C# Program to generate		
	d. Write a C# Program to generate electricity bill using Else-If ladder.		
	e. Write a C# Program to find the sum of		
	first N numbers.		
2	a. Write a C# Program to check a number is		
	Palindrome or not.		
	b. Write a C# Program to generate Fibonacci		
	series up to N Numbers.		
	c. Write a C# program to create a calculator		
	using Switch Case.		
	d. Write a C# Program to print a given array in reverse.		
	e. Create a simple C# code for the		
	following:		
	55555		
	4444		
	333		
	22		
3	a. Write a C# program find area of Circle,		
	Rectangle and Square using Polymorphism. b. Consider a class Information that has		
	data members as Name, Surname and Contact		
	number. Let Employee and Student class		
	inherits Information class with its own		
	other information such as Students Semester		
	or Employee Salary. Implement a system using		
	Method Overriding to take input from the		
	user for all the information and display		
	proper output.		
	c. Consider a class Apartment that has data		
	members as Apartment number and balcony type. Implement a system that has 3 classes		
	as 1bhk, 2bhk and 3bhk such that it does not		
	allow to create any other classes above		
	3bhk. Also implement inheritance in such a		
	way that 1bhk will have Rectangular Balcony		
	and all other flats have Rounded Balcony		
	(Use Sealed Class).		



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4 a. Apply Interface to find the area of Square, Rectangle and Circle. Display proper output. b. Create two interfaces Icredit and Idebit with methods deposit and withdraw respectively. Create a class Account that inherits interface such that it provides the functionality of Crediting some amount and withdrawing some amount. Use Proper Variables and display output accordingly. c. Demonstrate a calculator using delegate. 5 a. Write a C# Console based application to create following table using ADO. Net. b. Write a C# Console based application to display all the records of a table. Emp. id Name Designation Department Salary								
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textbox(txt1) for Full Name, textbox(txt2)								
	9				_			
for enrolment, textbox(txt3) for email,								
		for enr	olment,	textbox((txt3) fo	or email	,	

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	textbox(txt4) for mobile, textArea(txtarea1)	
	for Address, textbox(txt5) for City,	
	combobox(cmb1) for Semester,	
	radiobutton(rd1,rd2) for Gender and	
	datetimepicker(dtp1) for birthdate,	
	checkbox(ck1) for Agree to Register and	
	button(btn1). Write backend code for taking	
	input of each control and if Agree checkbox	
	is checked, then store all these data in the	
	database. Show Pop-Up message: "Registration	
	Successful".	
10	a. Write a Windows based application to	
	create following table using ADO. Net.	
	b. Write a C# Windows based application to	
	display all the records of a table.	
1 1	Use Above Table as per Lab 5.	
11	a. Write a C# Windows based application to	
	implement a functionality to insert a new	
	record in the table	
	b. Write a C# Windows based application to	
	implement a functionality to display	
	specific record from the table.	
	Use Above Table as per Lab 5.	
12	a. Write a C# Windows based application to	
12	implement a functionality to insert a new	
	record in the table	
	b. Write a C# Windows based application to	
	implement a functionality to display	
	specific record from the table.	
	Use Above Table as per Lab 5.	
13	a. Write a C# code to generate 3 different	
	lines of different colors.	
	b. Write a C# code to generate 4 different	
	lines of Multicolor Rectangle.	
	c. Write a C# code to generate 2 ellipses on	
	a windows form.	
14	a. Write XAML code for the following:	
14		
	Consider textbox(txt1) for First Number,	
	textbox(txt2) for Second Number,	
	textbox(txt3) for Answer, and 4 buttons	
	(btn1,btn2,btn3,btn4) for Addition,	
	Subtraction, Multiplication and Division	
	respectively. Write backend code for taking	
	input of 2 numbers and display relevant	
	output as per button click.	
	b. Write XAML code for the following:	
	Consider textbox(txt1) for Full Name,	
	textbox(txt2) for enrolment, textbox(txt3)	



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for email,	textbox(txt4)	for mo	bile,	
combobox(cmb1)	for	Seme	ester,	
radiobutton(rd1	,rd2) for	Gender	and	
datetimepicker((dtp1) for	birthdate	and	
button(btn1). W	Write backend	code for t	aking	
input of each a	and display al	l values in	pop-	
up box with pr	oper message o	on button ((btn1)	
click.				



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LAB-1

Program 1: Write a C# Program to print "Hello World".

Code:

```
namespace HelloWorld
{
   internal class Program
   {
     private static void Main(string[] args)
        {
          Console.WriteLine("HELLO!");
          Console.WriteLine("92000103073-Raj Chhadia");
          Console.ReadKey();
     }
}
```

```
■ D:\Marwadi\SEM-6\dotNET\LAB\Practical 1\Addition\HelloV
HELLO!
92000103073-Raj Chhadia
■
```



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Program 2: Write a C# Program to add 2 Numbers.

Code:

```
using System;
namespace Addition
{
    internal class Program
    {
        private static void Main(string[] args)
        {
            Console.WriteLine("Addtion of two numbers");
            Console.WriteLine("Enter 1st INTEGER");
            int a = int.Parse(Console.ReadLine());
            Console.WriteLine("Enter 2nd INTEGER");
            int b = int.Parse(Console.ReadLine());
            int c = a + b;
            Console.WriteLine("Answer: " + c);
            Console.ReadKey();
        }
    }
}
```

```
□□ D:\Marwadi\SEM-6\dotNET\LAB\Practical 1\Addition\Addition\De
Addtion of two numbers
Enter 1st INTEGER
15
Enter 2nd INTEGER
20
Answer: 35
```



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Program 3: Write a C# Program to find maximum of 2 Numbers.

Code:

```
using System;
namespace MaxOfTwo
    internal class Program
    {
        private static void Main(string[] args)
        {
            Console.WriteLine("Max of two numbers");
            Console.WriteLine("Enter 1st INTEGER");
            int a = int.Parse(Console.ReadLine());
            Console.WriteLine("Enter 2nd INTEGER");
            int b = int.Parse(Console.ReadLine());
            if (a > b)
                Console.WriteLine("Max is : " + a);
            else if (b > a)
                Console.WriteLine("Max is: " + b);
            else
                Console.WriteLine("Both are equal");
            Console.ReadKey();
        }
    }
```

```
D:\Marwadi\SEM-6\dotNET\LAB\Practical 1\Addition\MaxOfTwo\bin\Debug\Max of two numbers
[Enter 1st INTEGER 5
Enter 2nd INTEGER 69
[Max is: 69
```



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Program 4: Write a C# Program to generate electricity bill using Else-If ladder

```
using System;
namespace ElectricityBill
    internal class Program
    {
        private static void Main(string[] args)
            Console.WriteLine("Electricity Bill
Calaculator");
            Console.WriteLine("Enter number of units
consumed: ");
            float a = float.Parse(Console.ReadLine());
            if (a > 0 \&\& a <= 100)
                Console.WriteLine("Bill amount is : " + (a
* 5));
            else if (a >= 100 \&\& a < 200)
                Console.WriteLine("Bill amount is: " + (a
* 10));
            else if (a >= 200 \&\& a < 300)
                Console.WriteLine("Bill amount is : " + (a
* 20));
            else if (a >= 300 \&\& a < 400)
                Console.WriteLine("Bill amount is: " + (a
* 30));
            else if (a >= 400 \&\& a < 500)
                Console.WriteLine("Bill amount is : " + (a
* 40));
            else
```



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```
Console.WriteLine("Bill amount is: " + (a
* 50));

Console.Read();
}
}
```

Output:

```
■ D:\Marwadi\SEM-6\dotNET\LAB\Practical 1\Addition\ElectricityBill\bin\Debug\ElectricityBill
Electricity Bill Calaculator
Enter number of units consumed:
55
Bill amount is : 275
■
```

Program 5: Write a C# Program to find the sum of first N numbers.

```
using System;
namespace SumOfN
{
   internal class Program
   {
      private static void Main(string[] args)
      {
        Console.WriteLine("Sum of n numbers");
        Console.WriteLine("Enter value of n");
        int a = int.Parse(Console.ReadLine());
        int sum = 0;
```



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```
□ D:\Marwadi\SEM-6\dotNET\LAB\Practical 1\Additi
Sum of n numbers
Enter value of n
10
Sum is: 55
■
```

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LAB - 2

Program 1: Write a C# Program to check a number is Palindrome or not.

```
using System;
namespace Palindrome
    internal class Program
        private static void Main(string[] args)
            Console.WriteLine("Palindrome checker");
            Console.WriteLine("Enter the string: ");
            string originalString = Console.ReadLine();
            char[] stringArray =
originalString.ToCharArray();
            Array.Reverse(stringArray);
            string reverseString = new
string(stringArray);
            if (reverseString.Equals(originalString))
                Console. WriteLine ("String is
Palindrome");
            else
                Console.WriteLine("String is not
Palindrome");
            Console.ReadKey();
        }
    }
```



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}

Output:

☐☐ D:\Marwadi\SEM-6\dotNET\LAB\Practical 2\Palindrome\Palindrome\b Palindrome checker Enter the string: exe String is Palindrome



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Program 2: Write a C# Program to generate Fibonacci series up to N Numbers.

Code:

```
using System;
namespace Fibonacci {
    internal class Program {
        public static int Fibonacci(int n) {
            if (n == 1)
                return 0;
            else if (n == 2)
                return 1;
            else
                return Fibonacci(n - 1) + Fibonacci(n -
2);
        }
        private static void Main(string[] args) {
            Console.WriteLine("Fibbonacci Series");
            Console.WriteLine("Enter nth term: ");
            int number = int.Parse(Console.ReadLine());
            int term = Fibonacci(number);
            Console.WriteLine("nth term is: " + term);
            Console.ReadKey();
    }
```

```
D:\Marwadi\SEM-6\dotNET\LAB\Practical 2\Fibonacci\bin\Debug\Fibonacci.exe

Fibbonacci Series
Enter nth term:

10
nth term is: 34
```



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Program 3: Write a C# program to create a calculator using Switch Case.

```
using System;
namespace Calculator
{
    internal class Program
    {
        private static void Main(string[] args)
        {
            Console.WriteLine("Calculator");
            Console.WriteLine("Enter operation (+.-,*,/): ");
            string operation = Console.ReadLine();
            Console.WriteLine("Enter 1st number: ");
            float a = float.Parse(Console.ReadLine());
            Console.WriteLine("Enter 2nd number: ");
            float b = float.Parse(Console.ReadLine());
            switch (operation)
            {
                case "+":
                    Console. WriteLine ("Addition of two number
is: " + (a + b));
                    break;
                case "-":
                    Console. WriteLine ("Subtraction of two
number is: " + (a - b));
                    break;
                case "*":
```



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```
Console.WriteLine("Multiplication of two number is: " + (a * b));

break;

case "/":

Console.WriteLine("Division of two number is: " + (a / b));

break;

default:

Console.WriteLine("Invalid Input!");

break;

}

Console.ReadKey();

}
```

```
■ D:\Marwadi\SEM-6\dotNET\LAB\Practical 2\Calaculator\bin
Calculator
Enter operation (+.-,*,/):
*
Enter 1st number:
5
Enter 2nd number:
6
Multiplication of two number is: 30
```



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Program 4: Write a C# Program to print a given array in reverse.

```
using System;
namespace Reverse
{
    internal class Program
    {
        private static void Main(string[] args)
        {
            Console.WriteLine("Reversal of array");
            Console.WriteLine("Enter the number of element :
");
            int size = Convert.ToInt32(Console.ReadLine());
            int[] original array = new int[size];
            for (int i = 0; i < size; i++)
                Console.Write("Array[{0}] :", i);
                original array[i] =
Convert.ToInt32(Console.ReadLine());
            Array.Reverse(original array);
            for (int i = 0; i < size; i++)
            {
                Console.Write("Reverse array is :");
                Console.WriteLine(original array[i]);
            Console.Read();
```



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```
} }
```

```
D:\Marwadi\SEM-6\dotNET\LAB\Practical 2\Reverse\bin\Debug\
Reversal of array
Enter the number of element :

Array[0] :0
FArray[1] :7
Array[2] :3
Reverse array is :3
Reverse array is :7
Reverse array is :0
```



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Program 5: Create a simple C# code for the following:

55555 4444

333

22

1

```
using System;
internal class HelloWorld
    private static void Main()
        Console.WriteLine("Enter the number : ");
        int number = Convert.ToInt32(Console.ReadLine());
        for (int i = 0; i < number; i++)
            for (int j = number - i; j > 0; j--)
                Console.Write(number - i);
            Console.WriteLine("\n");
        Console.Read();
    }
```



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```
D:\Marwadi\SEM-6\dotNET\LAB\Practica
Enter the number :
5
55555
4444
333
```



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LAB-3

Program 1: Write a C# program find area of Circle, Rectangle and Square using Polymorphism.

```
using System;
namespace Area
{
    internal class Circle
    {
        public void area(float r)
        {
            float area = (float)3.14 * r * r;
            Console.WriteLine("Area of Circle is: " +
area);
        }
    }
    internal class Rectangle : Circle
    {
        public void area(float 1, float b)
        {
            float area = (float)1 * b;
            Console.WriteLine("Area of Rectangle is: " +
area);
        }
    }
    internal class Square : Rectangle
    {
```



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```
public void area(float s)
            float area = (float)s * s;
            Console.WriteLine("Area of Square is: " +
area);
        }
    }
    internal class Program : Square
        private static void Main(string[] args)
            Circle c = new Circle();
            Rectangle r = new Rectangle();
            Square s = new Square();
            Console.WriteLine("Raj Chhadia");
            Console.WriteLine("Enter the radius of
circle: ");
            c.area(float.Parse(Console.ReadLine()));
            Console.WriteLine("Enter the Length and
breadth of Rectangle: ");
            r.area(float.Parse(Console.ReadLine()),
float.Parse(Console.ReadLine()));
            Console.WriteLine("Enter the side of square:
");
            s.area(float.Parse(Console.ReadLine()));
            Console.ReadKey();
        }
    }
}
```





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Output:

```
D:\Marwadi\SEM-6\dotNET\LAB\Practical 3\Area\Area\bin\Debug\Area.
Raj Chhadia
Enter the radius of circle:
10
Area of Circle is: 314
Enter the Length and breadth of Rectangle:
5
6
Area of Rectangle is: 30
Enter the side of square:
8
Area of Square is: 64
```

Program 2: Consider a class Information that has data members as Name, Surname and Contact number. Let Employee and Student class inherits Information class with its own other information such as Students Semester or Employee Salary. Implement a system using Method Overriding to take input from the user for all the information and display proper output.

```
using System;
namespace Information
{
   internal class Program
   {
      private static void Main(string[] args)
      {
            Console.WriteLine("Raj Chhadia");
            Student s1 = new Student();
            Employee e1 = new Employee();
            Console.WriteLine("Enter your choice: ");
            Console.WriteLine("1. Student");
            Console.WriteLine("2. Employee");
            int choice = int.Parse(Console.ReadLine());
```



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```
switch (choice)
            case (1):
                s1.getData();
                s1.putData();
                break;
            case (2):
                e1.getData();
                e1.putData();
                break;
        Console.Read();
    }
}
internal class Information
{
    public string name;
    public string surname;
    public int number;
    public void getData()
    {
        Console.WriteLine("Enter the first name: ");
        name = Console.ReadLine();
        Console.WriteLine("Enter the surname: ");
        surname = Console.ReadLine();
        Console.WriteLine("Enter the contact number: ");
```



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```
number = int.Parse(Console.ReadLine());
    }
}
internal class Employee: Information
   private int salary;
   public void getData()
       base.getData();
        Console.WriteLine("Enter the employee salary: ");
        salary = int.Parse(Console.ReadLine());
    }
   public void putData()
        Console.WriteLine("Name: " + name);
        Console.WriteLine("SurName: " + surname);
        Console.WriteLine("Contact Number: " + number);
        Console.WriteLine("Salary: " + salary);
    }
}
internal class Student : Information
{
   private int semester;
   public void getData()
```



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```
Raj Chhadia
Enter your choice:
1. Student
2. Employee
1
Enter the first name:
Raj
Enter the surname:
C
Enter the contact number:
12
Enter the semester number:
6
Name: Raj
SurName: C
Contact Number: 12
Semester: 6
```



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Program 3: Consider a class Apartment that has data members as Apartment number and balcony type. Implement a system that has 3 classes as 1bhk,2bhk and 3bhk such that it does not allow to create any other classes above 3bhk. Also implement inheritance in such a way that 1bhk will have Rectangular Balcony and all other flats have Rounded Balcony (Use Sealed Class).

```
using System;
namespace Apartment
    internal class Program
    {
        private static void Main(string[] args)
        {
            OneBHK f1 = new OneBHK();
            fl.welcome();
            f1.display();
            f1.balcony();
            TwoBHK f2 = new TwoBHK();
            f2.welcome();
            f2.display();
            f2.balcony();
            ThreeBHK f3 = new ThreeBHK();
            f3.welcome();
            f3.display();
            f3.balcony();
            Console.ReadKey();
```



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```
}
    }
    public class Flat
        public void welcome()
            Console.WriteLine("Welcome to Beautiful
Apartment... Raj Chhadia");
        }
        public virtual void display()
            Console.WriteLine("Not ready yet...");
        }
        public virtual void features()
        {
            Console.WriteLine("Not ready yet...");
            balcony();
        }
        public virtual void balcony()
            Console.WriteLine("Not ready yet...");
        }
    }
    public class OneBHK : Flat
```



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```
public override void display()
    {
        Console.WriteLine("This is 1 BHK flat");
    }
    public override void features()
    {
        Console.WriteLine("\tFeatures...");
        balcony();
    }
    public override void balcony()
    {
        Console.WriteLine("\tBalcony: Rectangular\n");
    }
}
public class TwoBHK : OneBHK
{
    public override void display()
    {
        Console.WriteLine("This is 2 BHK flat");
    }
    public override void features()
    {
        Console.WriteLine("\tFeatures...");
        balcony();
    }
```



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```
public override sealed void balcony()
            Console.WriteLine("\tBalcony: Circular\n");
        }
    }
    public sealed class ThreeBHK : TwoBHK
    {
        public override void display()
            Console.WriteLine("This is 3 BHK flat");
        }
        public override void features()
        {
            Console.WriteLine("\tFeatures...");
            balcony();
        }
    }
}
```