

DEPARTMENT <i>Computer Science & Information Technology</i>	NEPATHYA COLLEGE, JANAKINAGAR, BUTWAL	LABORATORY MANUAL
	PRACTICAL EXPERIMENT INSTRUCTION SHEET	
	EXPERIMENT TITLE : Largest of three numbers.	
PAPER CODE: CSE-314N		ISSUE DATE : 1ST Jan, 2018
EXPERIMENT NO. : 01		SEMESTER : 6TH Semester
LABORATORY : NET CENTRIC COMPUTING LAB		PAGE NO. : 01-02

AIM : Write a C# program to find the largest of three numbers

PROGRAM :

```
using System;
public class LargestNumber
{
    public static void Main()
    {
        int num1, num2, num3;
        Console.WriteLine("\n\n");
        Console.WriteLine("Find the largest of three numbers:\n");
        Console.WriteLine("-----");
        Console.WriteLine("\n\n");

        Console.WriteLine("Input the 1st number :");
        num1 = Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Input the 2nd number :");
        num2 = Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Input the 3rd number :");
        num3 = Convert.ToInt32(Console.ReadLine());

        if (num1 > num2)
        {
            if (num1 > num3)
            {
                Console.WriteLine("The 1st Number is the greatest among three. \n\n");
            }
            else
            {
                Console.WriteLine("The 3rd Number is the greatest among three. \n\n");
            }
        }
    }
}
```

```
    }  
  }  
  else if (num2 > num3)  
    Console.WriteLine("The 2nd Number is the greatest among three \n\n");  
  else  
    Console.WriteLine("The 3rd Number is the greatest among three \n\n");  
}  
}
```

OUTPUT:

Find the largest of three numbers:

Input the 1st number : 20

Input the 2nd number : 25

Input the 3rd number :15

The 2nd Number is the greatest amount three

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	EXPERIMENT TITLE : Selection Sort	
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EXPERIMENT NO. : 02		SEMESTER : 6TH Semester
LABORATORY : NET CENTRIC COMPUTING LAB		PAGE NO. : 03-07

AIM: Write a C# Sharp program to sort a list of elements using the Selection sort algorithm

PROGRAM :

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

namespace Selection_Sort
{
    class Program
    {
        static void Main(string[] args)
        {
            Selection_Sort selection = new Selection_Sort(10);
            selection.Sort();
        }
    }

    class Selection_Sort
    {
        private int[] data;
        private static Random generator = new Random();
        //Create an array of 10 random numbers
        public Selection_Sort(int size)
        {
            data = new int[size];
        }
    }
}
```

```
        for (int i = 0; i < size; i++)
        {
            data[i] = generator.Next(20, 90);
        }
    }

    public void Sort()
    {
        Console.WriteLine("\nSorted Array Elements :(Step by Step)\n\n");
        display_array_elements();
        int smallest;
        for (int i = 0; i < data.Length - 1; i++)
        {
            smallest = i;

            for (int index = i + 1; index < data.Length; index++)
            {
                if (data[index] < data[smallest])
                {
                    smallest = index;
                }
            }
            Swap(i, smallest);
            display_array_elements();
        }
    }

    public void Swap(int first, int second)
    {
        int temporary = data[first];
        data[first] = data[second];
        data[second] = temporary;
    }

    public void display_array_elements()
    {
        foreach (var element in data)
        {
            Console.Write(element + " ");
        }
        Console.WriteLine("\n\n");
    }
}
```

OUTPUT:

50 70 50 80 89 25 78 58 83 73

25 70 50 80 89 50 78 58 83 73

25 50 70 80 89 50 78 58 83 73

25 50 50 80 89 70 78 58 83 73

25 50 50 58 89 70 78 80 83 73

25 50 50 58 70 89 78 80 83 73

25 50 50 58 70 73 78 80 83 89

25 50 50 58 70 73 78 80 83 89

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	EXPERIMENT TITLE : Reverse String		
PAPER CODE: CSE-314N		ISSUE DATE : 1ST Jan, 2018	
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LABORATORY : NET CENTRIC COMPUTING LAB		PAGE NO. : 08-12	

AIM: Write a program to print individual character of string in reverse order.

PROGRAM :

```
using System;
public class ReverseString
{
    public static void Main()
    {
        string str;
        int l=0;

        Console.WriteLine("\n\nprint individual characters of string in reverse order :\n");
        Console.WriteLine("-----\n");
        Console.WriteLine("Input the string : ");
        str = Console.ReadLine();

        l = str.Length - 1;
        Console.WriteLine("The characters of the string in reverse are : \n");
        while (l >= 0)
        {
            Console.WriteLine("{0} ", str[l]);
            l--;
        }
        Console.WriteLine("\n\n");
    }
}
```

OUTPUT:

Print individual characters of string in reverse order

Input the string : ayhtapen

The character of the string in reverse are :

nepathya

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	EXPERIMENT TITLE : Frequency of Number.	
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LABORATORY : NET CENTRIC COMPUTING LAB		PAGE NO. : 13-14

AIM : Write a program in C# Sharp to display the number and frequency of number from giving array.

PROGRAM :

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

class LinqExercise4
{
    static void Main(string[] args)
    {
        int[] arr1 = new int[] { 5, 9, 1, 2, 3, 7, 5, 6, 7, 3, 7, 6, 8, 5, 4, 9, 6, 2 };
        Console.WriteLine("\nLINQ : Display the number and frequency of number from given array : \n");
        Console.WriteLine("-----\n");
        Console.WriteLine("The numbers in the array are : \n");
        Console.WriteLine(" 5, 9, 1, 2, 3, 7, 5, 6, 7, 3, 7, 6, 8, 5, 4, 9, 6, 2\n");

        var n = from x in arr1
                group x by x into y
                select y;
        Console.WriteLine("\nThe number and the Frequency are : \n");
        foreach (var arrNo in n)
        {
            Console.WriteLine("Number "+arrNo.Key + " appears " +
arrNo.Count()+" times");
        }
        Console.WriteLine("\n");
    }
}
```

OUTPUT:

LINQ : Display the number and frequency of number from given array :

The numbers in the array are :

5, 9, 1, 2, 3, 7, 5, 6, 7, 3, 7, 6, 8, 5, 4, 9, 6, 2

The number and the Frequency are :

Number 5 appears 3 times

Number 9 appears 2 times

Number 1 appears 1 times

Number 2 appears 2 times

Number 3 appears 2 times

Number 7 appears 3 times

Number 6 appears 3 times

Number 8 appears 1 times

Number 4 appears 1 times

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	EXPERIMENT TITLE : Append String on file	
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LABORATORY : NET CENTRIC COMPUTING LAB		PAGE NO. : 15-17

AIM : Write a program in C# Sharp to create and write some line of text into a file which does not contain a given string in a line.

PROGRAM :

```
using System;
using System.IO;
```

```
class WriteTextFile
```

```
{
    static void Main()
    {
        string fileName = @"mytest.txt";
        string[] ArrLines;
        string str;

        int n,i;

        Console.WriteLine("\n\n Create and write some line of text which does not contain a given
string in a line : \n");
        Console.WriteLine("-----\n");

        if (File.Exists(fileName))
        {
            File.Delete(fileName);
        }
        Console.WriteLine(" Input the string to ignore the line : ");
        str = Console.ReadLine();
        Console.WriteLine(" Input number of lines to write in the file : ");
        n= Convert.ToInt32(Console.ReadLine());
```

```

ArrLines=new string[n];

Console.Write(" Input {0} strings below :\n",n);
    for(i=0;i<n;i++)
    {
        Console.Write(" Input line {0} : ",i+1);
        ArrLines[i] = Console.ReadLine();
    }

using (System.IO.StreamWriter file =
    new System.IO.StreamWriter(@"mytest.txt"))
{
    foreach (string line in ArrLines)
    {
        if (!line.Contains(str)) // write the line to the file If it doesn't contain the string in str
        {
            file.WriteLine(line);
        }
    }
}

using (StreamReader sr = File.OpenText(fileName))
{
    string s = "";
    Console.WriteLine("\n The line has ignored which contain the string '{0}'. \n",str);
    Console.WriteLine("\n The content of the file is :\n",n);
    Console.WriteLine("-----\n");
    while ((s = sr.ReadLine()) != null)
    {
        Console.WriteLine(" {0} ",s);
    }
    Console.WriteLine();
}
}
}

```

OUTPUT:

Input the string to ignore the line : easy
Input number of lines to write in the file : 2
Input 2 strings below :
Input line 1 : nepathya
Input line 2 : it is easy tutorial

The line has ignored which contain the string 'easy'.

The content of the file is :

nepathya

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AIM : Write a .NET CORE program to create object and save into database and read from database

PROGRAM :

Repository.cs

using System.Collections.Generic;

namespace FirstApp.Models

```
{
    public static class Repository
    {
        private static List<Employee> allEmployees = new List<Employee>();
        public static IEnumerable<Employee> AllEmployees
        {
            get { return allEmployees; }
        }
        public static void Create(Employee employee)
        {
            allEmployees.Add(employee);
        }
    }
}
```

Employee.cs

```
using System;

namespace FirstApp.Models
{
    public class Employee
    {
        public string Name { get; set; }
        public int Age { get; set; }
        public decimal Salary { get; set; }
        public string Department { get; set; }
        public Char Sex { get; set; }
    }
}
```

Create.cshtml

```
@model Employee
@{
    ViewData["Title"] = "Create";
}

<h2>Create</h2>
<form method="post">
    <p>
        <label asp-for="Name">Your Name:</label>
        <input asp-for="Name" />
    </p>
    <p>
        <label asp-for="Age">Your Age:</label>
        <input asp-for="Age" />
    </p>
    <p>
        <label asp-for="Salary">Your Salary:</label>
        <input asp-for="Salary" />
    </p>
    <p>
        <label asp-for="Department">Your Department:</label>
        <select asp-for="Department">
            <option value="Development">Development</option>
            <option value="HR">HR</option>
            <option value="Research">Research</option>
        </select>
    </p>
    <p>
```

```
<label asp-for="Sex">Your Sex:</label>
<input type="radio" asp-for="Sex" value="M" />Male
<input type="radio" asp-for="Sex" value="F" />Female
</p>
<p><button type="submit">Submit</button></p>
</form>
```

EmployeeController.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using FirstApp.Models;
using Microsoft.AspNetCore.Mvc;

namespace FirstApp.Controllers
{
    public class EmployeeController : Controller
    {
        public IActionResult Index()
        {
            return View();
        }

        //Reads all data from database
        public IActionResult Index()
        {
            return View(Repository.AllEmployees);
        }

        // HTTP GET VERSION
        public IActionResult Create()
        {
            return View();
        }

        // HTTP POST VERSION
        [HttpPost]
        public IActionResult Create(Employee employee)
        {
            Repository.Create(employee);
            return View("Thanks", employee);
        }
    }
}
```



```
}  
}
```

Employee.cshtml

```
@model IEnumerable<Employee>  
@{  
    ViewData["Title"] = "Index";  
}  
  
<h2>Here is the list of Employees</h2>  
<table style="width:50%">  
    <thead>  
        <tr>  
            <th>Name</th>  
            <th>Age</th>  
            <th>Salary</th>  
            <th>Department</th>  
            <th>Sex</th>  
        </tr>  
    </thead>  
    <tbody>  
        @foreach (Employee e in Model)  
        {  
            <tr>  
                <td>@e.Name</td>  
                <td>@e.Age</td>  
                <td>@e.Salary</td>  
                <td>@e.Department</td>  
                <td>@e.Sex</td>  
            </tr>  
        }  
    </tbody>  
</table>
```

OUTPUT:

FirstApp Home About Contact

Here is the list of Employees

Name	Age	Salary	Department	Sex
Yogi	30	30000	Development	M
Ranu	18	20000	Development	F
Pintu	18	13000	HR	M

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FirstApp Home About Contact

Create

Your Name:

Your Age:

Your Salary:

Your Department:

Your Sex: ☒ Male ☐ Female

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AIM : Write a program to demonstrate the binding and validations.

PROGRAM :

Student.cs

```
using System;
using System.ComponentModel.DataAnnotations;

namespace MvcCoreModelValidation_Demo.Models
{
    public class Student
    {
        [Key]
        public int Id { get; set; }

        [Required(ErrorMessage = "Please enter name")]
        [StringLength(100)]
        public string Name { get; set; }

        [Required(ErrorMessage = "Please choose gender")]
        public string Gender { get; set; }

        [Required(ErrorMessage = "Please enter date of birth")]
        [Display(Name = "Date of Birth")]
        [DataType(DataType.Date)]
        public DateTime DateofBirth { get; set; }
    }
}
```

```

[Required(ErrorMessage = "Choose batch time")]
[Display(Name = "Batch Time")]
[DataType(DataType.Time)]
public DateTime BatchTime { get; set; }

[Required(ErrorMessage = "Please enter phone number")]
[Display(Name = "Phone Number")]
[Phone]
public string PhoneNumber { get; set; }

[Required(ErrorMessage = "Please enter email address")]
[Display(Name = "Email Address")]
[EmailAddress]
public string Email { get; set; }

[Required(ErrorMessage = "Please enter website url")]
[Display(Name = "Website Url")]
[Url]
public string WebSite { get; set; }

[Required(ErrorMessage = "Please enter password")]
[DataType(DataType.Password)]
public string Password { get; set; }

[Required(ErrorMessage = "Please enter confirm password")]
[Display(Name = "Confirm Password")]
[Compare("Password", ErrorMessage = "Password and confirm password does not match")]
public string ConfirmPassword { get; set; }
}
}

```

Controller.cs

```

using Microsoft.AspNetCore.Mvc;
using MvcCoreModelValidation_Demo.Models;

namespace MvcCoreModelValidation_Demo.Controllers
{
    public class HomeController : Controller
    {
        public IActionResult Index()
        {
            return View();
        }
    }
}

```

```

[HttpPost]
[ValidateAntiForgeryToken]
public IActionResult Index(Student student)
{
    if (ModelState.IsValid)
    {

    }
    return View();
}
}
}

```

Index.cshtml

```

@model MvcCoreModelValidation_Demo.Models.Student

@{
    ViewData["Title"] = "Home Page";
}

<div class="card">
    <div class="card-header bg-primary text-white text-uppercase">
        <h4>Student Information</h4>
    </div>
    <div class="card-body">
        <form asp-action="Index">
            <div class="row">
                <div class="col-md-6">
                    <div class="form-group">
                        <label asp-for="Name" class="lable-control"></label>
                        <input asp-for="Name" class="form-control" />
                        <span asp-validation-for="Name" class="text-danger"></span>
                    </div>
                </div>
                <div class="col-md-6">
                    <div class="form-group">
                        <label asp-for="Gender" class="lable-control"></label>
                        <select class="custom-select">
                            <option value="">Choose Gender</option>
                            <option value="Male">Male</option>
                            <option value="Female">Female</option>
                        </select>
                        <span asp-validation-for="Gender" class="text-danger"></span>
                    </div>
                </div>
            </div>
        </form>
    </div>
</div>

```

```

        </div>
    </div>
</div>
<div class="row">
    <div class="col-md-6">
        <div class="form-group">
            <label asp-for="DateofBirth" class="lable-control"></label>
            <input asp-for="DateofBirth" class="form-control" />
            <span asp-validation-for="DateofBirth" class="text-danger"></span>
        </div>
    </div>
    <div class="col-md-6">
        <div class="form-group">
            <label asp-for="BatchTime" class="lable-control"></label>
            <input asp-for="BatchTime" class="form-control" />
            <span asp-validation-for="BatchTime" class="text-danger"></span>
        </div>
    </div>
</div>
<div class="row">
    <div class="col-md-4">
        <div class="form-group">
            <label asp-for="PhoneNumber" class="lable-control"></label>
            <input asp-for="PhoneNumber" class="form-control" />
            <span asp-validation-for="PhoneNumber" class="text-danger"></span>
        </div>
    </div>
    <div class="col-md-4">
        <div class="form-group">
            <label asp-for="Email" class="lable-control"></label>
            <input asp-for="Email" class="form-control" />
            <span asp-validation-for="Email" class="text-danger"></span>
        </div>
    </div>
    <div class="col-md-4">
        <div class="form-group">
            <label asp-for="WebSite" class="lable-control"></label>
            <input asp-for="WebSite" class="form-control" />
            <span asp-validation-for="WebSite" class="text-danger"></span>
        </div>
    </div>
</div>
<div class="row">
    <div class="col-md-6">
        <div class="form-group">
            <label asp-for="Password" class="lable-control"></label>

```

```
        <input asp-for="Password" class="form-control" />
        <span asp-validation-for="Password" class="text-danger"></span>
    </div>
</div>
<div class="col-md-6">
    <div class="form-group">
        <label asp-for="ConfirmPassword" class="lable-control"></label>
        <input asp-for="ConfirmPassword" class="form-control" />
        <span asp-validation-for="ConfirmPassword" class="text-danger"></span>
    </div>
</div>
</div>
<div class="form-group">
    <button type="submit" class="btn btn-primary rounded-0">Submit</button>
</div>
</form>
</div>
</div>
```

OUTPUT:

STUDENT INFORMATION

Name	Gender	
<input type="text"/>	<input type="text" value="Choose Gender"/>	
Please enter name	Please choose gender	
Date of Birth	Batch Time	
<input type="text" value="dd-mm-yyyy"/>	<input type="text" value="--:-- --"/>	
The value " is invalid.	The value " is invalid.	
Phone Number	Email Address	Website Url
<input type="text"/>	<input type="text"/>	<input type="text"/>
Please enter phone number	Please enter phone number	Please enter website url
Password	Confirm Password	
<input type="text"/>	<input type="text"/>	
Please enter password	Please enter confirm password	
<input type="button" value="Submit"/>		

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AIM : Write a program to implement the custom validation.

PROGRAM :

Student.cs

```
using MvcCoreCustomModelValidation_Demo.CustomValidation;
using System;
using System.ComponentModel.DataAnnotations;

namespace MvcCoreCustomModelValidation_Demo.Models
{
    public class Student
    {
        [Key]
        public int Id { get; set; }

        [Required(ErrorMessage = "Please enter name")]
        public string Name { get; set; }

        [Required(ErrorMessage = "Please choose admission date.")]
        [Display(Name = "Admission Date")]
        [DataType(DataType.Date)]
        [CustomAdmissionDate(ErrorMessage = "Admission Date must be less than or equal to Today's Date.")]
        public DateTime AdmissionDate { get; set; }

        [Display(Name = "Date of Birth")]
        [DataType(DataType.Date)]
        [Min18Years]
        public DateTime DateofBirth { get; set; }
    }
}
```

```

    }
}

```

Valiation.cs

```

using System;
using System.ComponentModel.DataAnnotations;

namespace MvcCoreCustomModelValidation_Demo.CustomValidation
{
    public class CustomAdmissionDate : ValidationAttribute
    {
        public override bool IsValid(object value)
        {
            DateTime dateTime = Convert.ToDateTime(value);
            return dateTime <= DateTime.Now;
        }
    }
}

```

Model.cs

```

using MvcCoreCustomModelValidation_Demo.Models;
using System;
using System.ComponentModel.DataAnnotations;

namespace MvcCoreCustomModelValidation_Demo.CustomValidation
{
    public class Min18Years : ValidationAttribute
    {
        protected override ValidationResult IsValid(object value, ValidationContext validationContext)
        {
            var student = (Student)validationContext.ObjectInstance;

            if (student.DateofBirth == null)
                return new ValidationResult("Date of Birth is required.");

            var age = DateTime.Today.Year - student.DateofBirth.Year;

            return (age >= 18)
                ? ValidationResult.Success
                : new ValidationResult("Student should be at least 18 years old.");
        }
    }
}

```

HomeController.cs

```
using Microsoft.AspNetCore.Mvc;
using MvcCoreCustomModelValidation_Demo.Models;

namespace MvcCoreCustomModelValidation_Demo.Controllers
{
    public class HomeController : Controller
    {
        public IActionResult Index()
        {
            return View();
        }

        public IActionResult New()
        {
            return View();
        }

        [HttpPost]
        [ValidateAntiForgeryToken]
        public IActionResult New(Student student)
        {
            if (ModelState.IsValid)
            {
                RedirectToAction("Index");
            }
            return View();
        }
    }
}
```

Index.cshtml

@model MvcCoreCustomModelValidation_Demo.Models.Student

```
@{
    ViewData["Title"] = "New";
}
```

```
<div class="card">
    <div class="card-header">
        <h4 class="text-uppercase">Student Information</h4>
    </div>
    <div class="card-body">
```

```
<form asp-action="New">
  <div class="form-group">
    <label asp-for="Name" class="label-control"></label>
    <input asp-for="Name" class="form-control" />
    <span asp-validation-for="Name" class="text-danger"></span>
  </div>
  <div class="row">
    <div class="col-md-6">
      <div class="form-group">
        <label asp-for="AdmissionDate" class="label-control"></label>
        <input asp-for="AdmissionDate" class="form-control" />
        <span asp-validation-for="AdmissionDate" class="text-danger"></span>
      </div>
    </div>
    <div class="col-md-6">
      <div class="form-group">
        <label asp-for="DateofBirth" class="label-control"></label>
        <input asp-for="DateofBirth" class="form-control" />
        <span asp-validation-for="DateofBirth" class="text-danger"></span>
      </div>
    </div>
  </div>
  <div class="form-group">
    <button type="submit" class="btn btn-sm btn-primary rounded-0">Submit</button>
  </div>
</form>
</div>
</div>
```

OUTPUT:

STUDENT INFORMATION

Name	Gender	
<input type="text"/>	<input type="text" value="Choose Gender"/>	
Please enter name	Please choose gender	
Date of Birth	Batch Time	
<input type="text" value="dd-mm-yyyy"/>	<input type="text" value="--:-- --"/>	
The value " is invalid.	The value " is invalid.	
Phone Number	Email Address	Website Url
<input type="text"/>	<input type="text"/>	<input type="text"/>
Please enter phone number	Please enter phone number	Please enter website url
Password	Confirm Password	
<input type="text"/>	<input type="text"/>	
Please enter password	Please enter confirm password	
<input type="button" value="Submit"/>		

DEPARTMENT <i>Computer Science & Information Technology</i>	NEPATHYA COLLEGE, JANAKINAGAR , BUTWAL	LABORATORY MANUAL
	PRACTICAL EXPERIMENT INSTRUCTION SHEET	
	EXPERIMENT TITLE : Exception Handling .	
PAPER CODE: CSE-314N		ISSUE DATE : 1ST Jan, 2018
EXPERIMENT NO. : 09		SEMESTER : 6TH Semester
LABORATORY : NET CENTRIC COMPUTING LAB		PAGE NO. : 25-26

AIM : Write a Program to illustrate Exception Handling in C#

PROGRAM :

```
using System;
class MyClient
{
    public static void Main()
    {
        int x = 0;
        int div = 0;
        try
        {
            div = 100 / x;
            Console.WriteLine("This linein not executed");
        }
        catch (DivideByZeroException)
        {
            Console.WriteLine("Exception occured");
        }
        Console.WriteLine($"Result is {div}");
    }
}
```

OUTPUT:

Exception Occurred

Result is 0

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	PRACTICAL EXPERIMENT INSTRUCTION SHEET		
	EXPERIMENT TITLE : Custom Exception		
PAPER CODE: CSE-314N		ISSUE DATE : 1ST Jan, 2018	
EXPERIMENT NO. : 10		SEMESTER : 6TH Semester	
LABORATORY : NET CENTRIC COMPUTING LAB		PAGE NO. : 27-30	

AIM : Write a c# program to implement custom exception

PROGRAM :

```

class Student
{
    public int StudentID { get; set; }
    public string StudentName { get; set; }
}

[Serializable]
class InvalidStudentNameException : Exception
{
    public InvalidStudentNameException() { }

    public InvalidStudentNameException(string name)
        : base(String.Format("Invalid Student Name: {0}", name))
    {
    }
}

class Program
{
    static void Main(string[] args)
    {
        Student newStudent = null;

        try
        {
            newStudent = new Student();
            newStudent.StudentName = "James000";
        }
    }
}

```



```
        ValidateStudent(newStudent);
    }
    catch(InvalidStudentNameException ex)
    {
        Console.WriteLine(ex.Message );
    }

    Console.ReadKey();
}

private static void ValidateStudent(Student std)
{
    Regex regex = new Regex("[a-zA-Z]+$");

    if (!regex.IsMatch(std.StudentName))
        throw new InvalidStudentNameException(std.StudentName);
}
}
```

OUTPUT:

INVALID STUDENT NAME: James000