Assignment 1

Program 1:

Create an html page having table with caption as My Caption

100	200	300
400	500	600

Create the html page with coloner attribute in the following

```
400

</body>
</html>
```

Program 2:

Create the html page with colspan attribute in the following manner

Name	Telephone		
Bill Gates	555 77 854	555 77 855	

```
tr,th{
  height: 50px;
 }
 </style>
</head>
<body>
  Name
    Telephone
  Bill Gates
   555 77 854
   555 77 855
  </body>
</html>
```

Program 3:

Create an html page having table as

First Heading	Second Heading
11	12
21	22

reate the html page with row span attribute in the following

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title> My Document</title>
  <style>
    table, th, td {
 border: 1px solid black;
 border-collapse: collapse;
}
 tr,th{
     height: 50px;
     width: 200px;
  }
  </style>
</head>
<body>
```

```
 First Heading
   Second Heading
 11
  12
 21
  22
 </body>
</html>
```

Program 4:

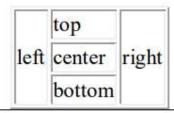
manner		
	First Name:	Bill Gates
	Talanhana	555 77 854
	Telephone:	555 77 855

```
<!DOCTYPE html>
<html>
<head>
 <meta charset="UTF-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title> My Documnet</title>
<style>
table, th, td {
 border: 1px solid black;
 border-collapse: collapse;
}
th, td {
 padding: 5px;
 text-align: left;
}
</style>
</head>
```

```
<body>
First Name:
Bill Gates
Telephone:
555 77 854
555 77 855
</body>
</html>
```

Program 5:

Create the html page with rowspan attribute in the following manner



```
<!DOCTYPE html>
<html lang="en">
<head>
```

```
<meta charset="UTF-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Document</title>
 <style>
   table, th, td {
    border: 1px solid black;
    border-collapse: collapse;
   }
   th, td {
    padding: 5px;
    text-align: left;
   </style>
</head>
<body>
 left
   top
     right
      center
     bottom
```

```
</body>
```

Program 6:

Create an html page and align the text of data cell in the following manner.

Left align	Right align	Center align
Hello	Hello	Hello

```
style="text-align: left">Left align

style="text-align: right">Right align

style="text-align: center">Center align

style="text-align:left">Hello

style="text-align:right">Hello

style="text-align:right">Hello

style="text-align: center">Hello

</body>
</html>
```

Program 7:

following manner

111	222	colspan 2
333	444	colspan 2
555	666	colspan 2
777	888	colspan 2
321	123	hello World
444	555	colspan 2
333	444	
222	333	rowspan 3 and colspan 2
111	222	

```
Program 7: Create the Work page with nowspan and collepan
         attribute in the following manner:
   L Homes
   < heed>
   Ltitles Ass1-7 Littles
  2styles
      table, th , to &
            border! Ipn solid blue;
     21 Style
   21 heads
  2 bodys
     4 tables
     Lthi
      Ltd> 111 2/td>
      4+0> 222 2/td>
      Ltd Eolspan = "3" > colspan 2 L/tds
      2/18)
    4+8>
    Ltd> 333 Lltd>
    Ltd> 444 Lltd>
    Ltd colspan ="2"> Colspan a LIta>
   4/th>
   4+17
      2+d> $55 2/ta>
       1 td> 666 11td>
     Ltd colspan = " 2" > colspan 2 2/td>
      2/17)
                                         Scanned by TapScanner
```

```
4+15
    L+d> 777 
    2 tds 888 2/td>
    < +d colspan="3"> (colspan 2 2/td)
   2/12>
  2 +05
    Ltd style = "background-celor: red;"> 321 2/11/
    2+d style="background/celor: palevioletred;"> 123 < 1+ds</p>
    2 td Style = "background-color: yellow;"> hello 2/td>
    2 to etyle = "beyground-color: lightgreen;" > World L/td>
   21+8>
2+0>
   Ltd> 444 Lltd>
   Ltd> 555 4/1d>
   2/115
Ltis
  Ltd> 333
 2 +d> 444
 2+0 Celspan="2" rowspan="3" Style="background-color: pink;">
       Houspan 3 and celspan 2 2/1d>
 21+83
 4+1>
    7 tg> 555 (14g)
   2 td > 338 21 td>
  2/+17/
                                        Scanned by TapScanner
```

2+0> 111 2/+d>
2+0> 122 2/+d>
2+0> 222 2/+d>
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Program 8:

Create the html page for showing time table in the following manner

		Time '	Table		
	Mon	Tue	Wed	Thu	Fri
	Science	Maths	Science	Maths	Arts
TTOOLS	Social	History	English	Social	Sports
Hours		H	Lunch		
	Science	Maths	Science	Maths	D
	Social	History	English	Social	Project

```
 Hours 
 Mon 
 Tues 
 Wed 
 Thrus
 Fri 
 Science 
 Maths
Science
 Maths 
 Arts
 Social 
 History
 English
 Social 
 Sports
 Lunch
```

Program 10: Create an html page for the registration of the employee and use the following input elements:-Name, Address, Phone No, Email Id, Pin No, Mobile No, City, and State.

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<style>
body{
font-family: Calibri, Helvetica, sans-serif;
background-color: pink;
}
```

```
.container {
  padding: 50px;
 background-color: lightblue;
}
input[type=text],[type=email], textarea {
 width: 100%;
 padding: 15px;
 margin: 5px 0 22px 0;
 display: inline-block;
 border: none;
 background: #f1f1f1;
}
div {
       padding: 10px 0;
     }
hr {
 border: 1px solid #f1f1f1;
 margin-bottom: 25px;
}
.registerbtn {
 background-color: #4CAF50;
 color: white;
 padding: 16px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
 width: 100%;
 opacity: 0.9;
```

```
}
.registerbtn:hover {
 opacity: 1;
}
</style>
<title>Employee Registration Form</title>
</head>
<body>
<form>
 <div class="container">
 <center> <h1> Registeration Form </h1> </center>
 <hr>
 <label for="Name"><b>Name</b></label>
<input type="text" name="name" placeholder= " Enter Name" size="15" required />
<div>
<label>
<label for="gender"><b>Gender</b></label>
</label><br>
<input type="radio" value="Male" name="gender" checked > Male
<input type="radio" value="Female" name="gender"> Female
<input type="radio" value="Other" name="gender"> Other
</div>
<label>
<label for="phone"><b>Phone No:</b></label>
</label>
<input type="text" name="phone" placeholder="phone no." size="10"/ required>
```

```
<label for="address"><b>Address</b></label>
<textarea cols="80" rows="3" placeholder="Current Address" value="address"
required>
</textarea>
<label for="pin"><b>Pin Code</b></label>
  <input type="text" placeholder="Enter Pin" name="pin" required>
<label for="email"><b>Email</b></label>
<input type="email" placeholder="Enter Email" name="email" required/>
  <label for="city"><b>City</b></label>
  <input type="text" placeholder="Enter City Name" name="city" required>
  <label for="state"><b>State</b></label>
  <input type="text" placeholder="Enter State Name" name="state" required>
  <button type="submit" class="registerbtn">Register</button>
</form>
</body>
</html>
```

Program 11: Create an html page and jump in the specific section of the page for avoiding scrolling.

</head>

Program 12: Create an html page and take text field and password field.

```
</head>
</body>
<form>
<label>Username: <input type="text"></label> <br>
<label>Password: <input type="password"></label> <br>
<br/>
```

Program 13: Create an html page and display different types of header available in html for the Text like Teerthanker Mahaveer University.

```
<center><h4>Teerthanker Mahaveer University</h4></center>
<center><h5>Teerthanker Mahaveer University</h5></center>
<center><h6>Teerthanker Mahaveer University</h6></center>
</body>
</html>
```

Program 14: Create an html page that has marquee as TEERTHANKER MAHAVEER UNIVERSITY. When we hold mouse over this marquee then the moving text is stopped and show marquee movement as horizontal as well as vertical direction

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <div style="height: 250px;">
     <marquee onmouseover="this.stop();" onmouseout="this.start();">
       Teerthanker Mahaveer University (hover mouse to stop me)
       </marquee>
  </div>
     <div> <marquee align="center" height="200" width="500" direction="up"
onmouseover="this.stop();" onmouseout="this.start();">
```

Teerthanker Mahaveer University (hover mouse to stop me)</marquee>

</div>
</body>
</html>

Program 15:

Create a htm	I page for	creating	website	of TMU
--------------	------------	----------	---------	--------

TI	HIS IS HEADER AN	D WILL SHOW IMA	GE OF TMU
HOME	ABOUT US	CONTACT US	COURSES
		San	OFFERED

WELLCOM TO THE HOME PAGE OF TEERTHANKER MAHAVEER UNIVERSITY MORADABAD

Theerthanker Mahaveer university India's top best private university in India.

COPYRIGHT@TMU

```
Program 15: Create an time page for creating website of TMU.
   1 htmls
    1 heads
      Ltitles
         Ass1-15 4/ titles
    2/head>
    26ody >
     4 fieldset>
         2+1>
           TMU Logo
            2/td> 2/t8>
      Ltr>
        Lths HOME LITHY
        Z+L> ABOUT US ZITHS
         2+4> CONTACT US LITES
         L+A> GURSES OFFERED LHLA>
        4/+15
       4table > Lbr > Lbr > Lbr >
    Lps welcome to the home page of Teerthanker Mahaveer
        University Moradabad 2/67
    Lp> Teerthanker Mahaveer University India's top best private
         university in India 2/b)
Zunter> Zp> Copy Right @ This Elph (Cotter)
        4/fieldset>
                                     Scanned by TapScanner
         < 1 htones
```

Program 16:

Create a Form having two boxes with labels as FirstName and LastName. The User should not be allowed to enter the names directly in the text boxes. The input has to be given in the prompt box and then entered values should be given in the text boxes.

```
<!DOCTYPE html >
<HTML>
<HEAD>
 <TITLE> New Document </TITLE>
 <style>
   label.exe{
    padding-left: 80px;
    }
 </style>
 <script type="text/javascript">
      function init(){
            getName();
      }
      function getName(){
            var nameForm=document.frm;
            var name=prompt("user first name","");
            if(name != null && name!=""){
                   nameForm.fname.value=name;
            }
    var nameForm=document.frm;
            var Iname=prompt("user last name","");
```

```
if(Iname != null && Iname!=""){
                  nameForm.lname.value=lname;
            }
      }
 </script>
</HEAD>
<BODY onload="init()">
    <center>Getting input from prompt box and display in textbox</center>
      <form name="frm">
    <label class="exe" for="FirstName"><b>FirstName : </b></label>
            <input class="exe" type="text" name="fname"/> <br> <br>
    <label class="exe" for="LastName"><b>LastName : </b></label>
    <input class="exe" type="text" name="Iname" >
      </form>
</BODY>
</HTML>
```

Program 17:

Create a Web Page that has a button in the centre of the page. Using mouse events change the Message in the status bar.

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>
     .container {
       text-align: center;
width: 300px;
height: 200px;
padding-top: 300px;
padding-left: 500px;
  </style>
</head>
<body>
  <div class="container" >
     <center> <button onmouseover="window.status='Status Changed'; return true;"</pre>
       >click me</button></center>
  </div>
  </body>
</html>
```

Program 18:

Design a Web page that accepts UserName and Password. Opens a new window when the password corresponds to a particular value is set by the developer

```
<html>
<head>
<title>
Login page
</title>
```

```
<style>
  label.exe{
  padding-left: 80px;
  }
  .button {
position: absolute;
left: 220px;
}
</style>
<script >
  function check(form)
  {
   if( form.pass.value == "12345678")
     window.open("Ass1_18(validation).html")
   }
   else
   {
    alert("Incorrect Password")
   }
  }
  </script>
</head>
<body>
Moving to Next Page - Password validation
<form name="login">
  <label class="exe" for="FirstName"><b>UserName : </b></label>
```

```
<input autofocus type="text" name="name" size="25" required /> <br>
  <label class="exe" for="LastName"><b>Password : </b></label>
  <input type="password" name="pass" size="25" required /> <br> <br>
  <input class="button" type="button" onclick="check(login)" value="Submit
Query"/>
</form>
</body>
</html>
Ass1_18(validation).html:
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <center><h1>welcome To the University!</h1></center>
</body>
</html>
```

Program 19:

Design a Web page that consists of 2 text boxes. When the page is first loaded set the focus to the first textbox. The user should not be allowed to leave the box unless enters a value in it

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>
     label.exe{
     padding-left: 80px;
    }
     .button {
 position: absolute;
 left: 220px;
}
  </style>
</head>
<body >
  <label class="exe" for="FirstName"><b>FirstName : </b></label>
  <input autofocus type="text" name="name" id="txt1" size="25" required />
<br><br>>
  <label class="exe" for="LastName"><b>LastName : </b></label>
```

```
<input type="text" name="name2" size="25" required
onfocus="myFunction(document.getElementById('txt1').value)" /> <br> <br/> <br/>
<button class="button" > Submit Query
<script>
  function myFunction(inputtx)
{
if (inputtx.length == 0)
 {
   alert("FNmae textbox should not be empty");
   return false;
 }
 return true;
}
</script>
</body>
</html>
```

Program 20:



```
<center><h1 style="color: blue;" > HTML Link Examples</h1></center>
  <div>
    <a href="#"><img style="width: 150px;" src="web_designing.jpg" alt=""></a>
  </div>
  <a href="https://tmu.ac.in/" target=" blank"> b. Open a Link in a new browser
window</a> <br>
  <a href="mailto: djain01012002@gmail.com?subject=Mail from Divyanshu jain"
target=" blank""> c.Send Email</a> <br>
  <a href="javascript:setTimeout;"> d. Redirect a user to link to next page in another
5 sec</a> <br>
  <a href="#course;"> e.Course Information reg-Ecommerce</a> <br>
<div>
  <center><h1 id="course" style="color: blue;" >Course Information</h1></center>
  Msc First Semester-Subjects <br>
  1.DataStructure- Algorithms
  2.Relational Database Management
  3.Microprocessor
  4.00PS
  Msc Secondt Semester- Subjects <br>
  1.Network-Basics
  2.System Software
  3.Information Coding Technique
</div>
</body>
</html>
```

Program 21:

Create HTML page with form tag with following input elements Name, Address, Mobile No. and submit button .Write php program to print html form value with \$ POST variable.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <form action = "action2.php" method = "POST">
     Name: <input type = "text" name = "name" /> <br> <br>
    Address: <input type="text" name="Address"> <br> <br>
    Phone No: <input type="number" name="Phone"> <br> <br>
    <input type = "submit" />
  </form>
</body>
</html>
```

Action2.php:

```
<?php
if( $_POST["name"] || $_POST["Address"]|| $_POST["Phone"] ) {
  echo "Name is ". $_POST['name']. "<br />";
  echo "Address is ". $_POST['Address']. "<br/>";
```

```
echo "phone No. is ". $_POST['Phone'];
  exit();
}
?>
```

Program 22:

Create HTML page with form tag with following input elements Name, Address, Mobile No. and submit button .Write php program to print html form value with \$_GET variable

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <form action = "action.php" method = "GET">
     Name: <input type = "text" name = "name" /> <br> <br>
    Address: <input type="text" name="Address"> <br> <br>
    Phone No: <input type="number" name="Phone"> <br> <br>
    <input type = "submit" />
  </form>
</body>
</html>
```

Action.php:

```
<?php
if( $_GET["name"] || $_GET["Address"]|| $_GET["Phone"] ) {
   echo "Name is ". $_GET['name']. "<br/>";
   echo "Address is ". $_GET['Address']. "<br/>br/>";
   echo "phone No. is ". $_GET['Phone'];

   exit();
}
?>
```

ASSIGNMENT 2

```
Program 1: WCP to display a message "HELLO INDIA" on console.
using System;
namespace Ass2__
  class Program
     static void Main(string[] args)
     {
       Console.WriteLine("Hello World!");
     }
  }
}
Output:
Hello World
Program 2: WCP to perform arithmetic operation.
using System;
namespace Ass2_2
{
  class Program
  {
     static void Main(string[] args)
     {
       int a = 50, b = 25;
       Console.WriteLine(a + b);
       Console.WriteLine(a -b);
```

```
Console.WriteLine(a * b);
Console.WriteLine(a / b);

}

Output:
75
25
1250
2
```

Program 3: WCP to find weather a year is leap or not.

```
using System;

namespace Ass2_3
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter Year : ");
            int Year = int.Parse(Console.ReadLine());
            if (((Year % 4 == 0) && (Year % 100 != 0)) || (Year % 400 == 0))
Console.WriteLine("{0} is a Leap Year.", Year);
```

```
else Console.WriteLine("{0} is not a Leap Year.", Year);
       Console.ReadLine();
    }
  }
}
Output:
Enter Year:
2000
2000 is a Leap Year.
Program 4: WCP to find the grades of a student according to their scores.
using System;
namespace Ass2_4
{
  class Program
  {
     static void Main(string[] args)
     {
       string[] studentId = { "STU01", "STU02", "STU03", "STU04", "STU05" };
       int[] marks = { 76, 83, 92, 65, 34 };
       Console.WriteLine("Finds the grade for each student");
       for (int i = 0; i < studentId.Length; i++)
       {
          if (marks[i] > 90)
            Console.WriteLine(studentId[i] + " Grade: " + "A");
          }
          else if (marks[i] > 80)
```

```
{
            Console.WriteLine(studentId[i] + " Grade: " + "B");
          else if (marks[i] > 70)
            Console.WriteLine(studentId[i] + " Grade: " + "C");
          }
          else if (marks[i] > 50)
            Console.WriteLine(studentId[i] + " Grade: " + "D");
          }
          else
            Console.WriteLine(studentId[i] + " Grade: " + "FAIL");\\
          }
       }
       Console.ReadKey();
    }
  }
}
Output:
Finds the grade for each student
STU01 Grade: C
STU02 Grade: B
STU03 Grade: A
STU04 Grade: D
STU05 Grade: FAIL
```

```
Program 5: WCP to find factorial using for, while, do...While loops (Using for loop):
```

```
using System;
namespace Ass2 5 for
  class Program
  {
     static void Main(string[] args)
     {
       int i, fact = 1, number;
       Console.Write("Enter Number: ");
       number = int.Parse(Console.ReadLine());
       for (i = 1; i <= number; i++)
       {
          fact = fact * i;
       }
       Console.Write("Factorial is: " + fact);
       Console.ReadKey();
     }
  }
}
Using while loop:
using System;
namespace Ass2_5_while
{
```

```
class Program
  {
     static void Main(string[] args)
     {
       Console.WriteLine("Enter Number: ");
       int n = int.Parse(Console.ReadLine());
       int fact = 1, i = 1;
       while(i<=n)
       {
          fact = fact * i;
          j++;
       }
       Console.WriteLine("Fcatorial is " + fact);
       Console.ReadKey();
     }
  }
}
Using do-while:
using System;
namespace Ass2_5
{
  class Program
  {
     static void Main(string[] args)
     {
```

```
Console.WriteLine(" Enter Number: ");
       int n = int.Parse(Console.ReadLine());
       int i = 1;
       int factorial = 1;
       do
       {
          factorial *= i;
          į++;
       }
       while (i \le n);
       Console.WriteLine("Factorial is: "+ factorial);
     Console.ReadKey();
     }
  }
}
Output:
Enter Number:
5
Factorial is: 120
Program 6: WCP to print table from 1-10.
using System;
namespace Ass2_6
{
  class Program
```

```
{
     static void Main(string[] args)
     {
        for (int table = 1; table <= 10; table++)
       {
          for (int i = 1; i \le 10; i++)
          {
             Console.WriteLine(table + " * " + (i) + " = " + (table * (i)));
          }
          Console.WriteLine("-----");
       }
     }
  }
}
Output:
1 * 1 = 1
1 * 2 = 2
1 * 3 = 3
1 * 4 = 4
1 * 5 = 5
1 * 6 = 6
1 * 7 = 7
1 * 8 = 8
1 * 9 = 9
1 * 10 = 10
2 * 1 = 2
2 * 2 = 4
```

7 * 1 = 7

```
10 * 5 = 50

10 * 6 = 60

10 * 7 = 70

10 * 8 = 80

10 * 9 = 90

10 * 10 = 100
```

Program 7: WCP to perform various string operations.

```
using System;
namespace Ass2 7
{
  class Program
  {
     static void Main(string[] args)
    {
       string a,b;
       a = "Divyan shu";
        b = "Divyanshujain";
       Console.WriteLine(a.Clone());
       // Make String Clone
       Console.WriteLine(a.CompareTo(b));
       //Compare two string value
       Console.WriteLine(a.Contains("shu")); //Check whether specified value exists
or not in string
```

Console.WriteLine(a.EndsWith("u")); //Check whether specified value is the last character of string

Console.WriteLine(a.Equals(b));

//Compare two string and returns true and false

Console.WriteLine(b.IndexOf("a")); //Returns the first index position of specified value

```
Console.WriteLine(a.ToLower());
//Covert string into lower case
Console.WriteLine(a.ToUpper());
//Convert string into Upper case
Console.WriteLine(a.Insert(0, "Hello")); //Insert substring into string
Console.WriteLine(a.Length);
//Returns the Length of String
Console.WriteLine(a.Substring(2, 5));
//Returns substring
Console.WriteLine(a.ToCharArray());
//Converts an string into char array.
Console.WriteLine(a.Trim());
//It removes starting and ending white spaces from
```

```
}
  }
}
Output:
Divyan shu
-1
True
True
False
divyan shu
DIVYAN SHU
HelloDivyan shu
10
vyan
Divyan shu
Divyan shu
Program 8: WCP to identify choice of user using select...Case.
using System;
namespace Ass2_8
{
  class Program
```

{

```
static void Main(string[] args)
{
  char op;
  double first, second, result;
  Console.Write("Enter first number: ");
  first = Convert.ToDouble(Console.ReadLine());
  Console.Write("Enter second number: ");
  second = Convert.ToDouble(Console.ReadLine());
  Console.Write("Enter operator (+, -, *, /): ");
  op = (char)Console.Read();
  switch (op)
  {
     case '+':
       result = first + second;
       Console.WriteLine(result);
       break;
     case '-':
       result = first - second;
       Console.WriteLine(result);
       break;
     case '*':
       result = first * second;
       Console.WriteLine(result);
       break;
     case '/':
```

```
result = first / second;
             Console.WriteLine( result);
             break;
          default:
             Console.WriteLine("Invalid Operator");
             break;
       }
       Console.ReadKey();
     }
  }
}
Output:
Enter first number: 23
Enter second number: 45
Enter operator (+, -, *, /): +
68
Program 9: WCP to declare & initialize various types of variables.
using System;
namespace Ass2_9
  class Program
     static void Main(string[] args)
       string stringVar = "Hello World!!";
       int intVar = 100;
```

```
float floatVar = 10.2f;
       char charVar = 'A';
       bool boolVar = true;
       double doubleVar = 12.25;
       Console.WriteLine(stringVar);
       Console.WriteLine(intVar);
       Console.WriteLine(floatVar);
       Console.WriteLine(charVar);
       Console.WriteLine(boolVar);
       Console.WriteLine(doubleVar);
    }
  }
}
Output:
Hello World!!
100
10.2
Α
True
12.25
Program 10: WCP to find the largest number among three numbers
using System;
namespace Ass2_10
{
  class Program
  {
```

```
{
       // set the value of the three numbers
       Console.WriteLine("enter first number: ");
       int num1 = int.Parse(Console.ReadLine());
          Console.WriteLine("enter second number: ");
       int num2 = int.Parse(Console.ReadLine());
       Console.WriteLine("enter third number: ");
       int num3 = int.Parse(Console.ReadLine());
       if (num1 > num2)
       {
          if (num1 > num3)
          {
            Console.Write("Number one is the largest!\n");
          }
          else
          {
            Console.Write("Number three is the largest!\n");
          }
       }
       else if (num2 > num3)
          Console.Write("Number two is the largest!\n");
       else
          Console.Write("Number three is the largest!\n");
     }
  }
}
```

static void Main(string[] args)

```
Output:
enter first number:
20
enter second number:
10
enter third number:
30
Number three is the largest!
Program 11: WCP to find maximum element in array a of size n.
using System;
namespace Ass2_11
{
  class Program
  {
     static void Main(string[] args)
     {
        int[] arr = new int[5] { 99, 95, 93, 89, 87 };
        int i, max, n;
        n = 5;
        max = arr[0];
        for (i = 1; i < n; i++)
        {
          if (arr[i] > max)
          {
             max = arr[i];
          }
```

```
}
       Console.Write("Maximum element = {0}\n", max);
       Console.ReadKey();
     }
  }
}
Output:
Maximum element = 99
Program12: WCP to find minimum element in array a of size n.
using System;
namespace Ass2_12
{
  class Program
  {
     static void Main(string[] args)
     {
       int[] arr = new int[5] { 99, 95, 93, 89, 87 };
       int i, min, n;
       n = 5;
       min = arr[0];
       for (i = 1; i < n; i++)
       {
```

```
if (arr[i] < min)
          {
            min = arr[i];
          }
       }
       Console.Write("Minimum element = {0}\n\n", min);
       Console.ReadKey();
    }
  }
}
Output:
Minimum element= 87
Program 13: WCP to find LCM of two number
using System;
namespace Ass1_13
{
  class Program
  {
     static void Main(string[] args)
     {
       int num1, num2, x, y, lcm = 0;
       Console.WriteLine("Enter first number");
       num1 = int.Parse(Console.ReadLine());
       Console.WriteLine("Enter second number");
```

```
num2 = int.Parse(Console.ReadLine());
       x = num1;
       y = num2;
       while (num1 != num2)
       {
         if (num1 > num2)
            num1 = num1 - num2;
         }
         else
           num2 = num2 - num1;
         }
       }
       lcm = (x * y) / num1;
       Console.Write("Least Common Multiple is: " + lcm);
       Console.ReadKey();
    }
  }
}
Output:
Enter first number
Enter second number
Least Common Multiple is: 12
```

```
Program14: WCP to find the area of a circle.
```

```
using System;
namespace Ass2_14
  class Program
     static void Main(string[] args)
     {
       Console.WriteLine("Enter radius of circle");
       float r = float.Parse(Console.ReadLine());
       double area = 3.14 * r * r;
       Console.WriteLine("Area is: " + area);
       Console.ReadKey();
    }
  }
}
Output:
Enter radius of circle
3
Area is: 28.25999999999998
Program 15: WCP to convert decimal to binary number.
using System;
namespace Ass2_15
{
  class Program
```

```
{
     static void Main(string[] args)
     {
        int n, i;
        int[] a = new int[100];
        Console.Write("Enter the number to convert: ");
        n = int.Parse(Console.ReadLine());
        for (i = 0; n > 0; i++)
        {
          a[i] = n % 2;
          n = n / 2;
        }
        Console.Write("Binary of the given number= ");
        for (i = i - 1; i >= 0; i--)
        {
          Console.Write(a[i]);
        }
        Console.ReadKey();
     }
  }
}
Output:
Enter the number to convert: 23
Binary of the given number= 10111
Program 16: WCP to swap four numbers without using fifth variable
using System;
namespace Ass2_16
```

```
class Program
{
  static void Main(string[] args)
  {
     Console.WriteLine("enter 4 numbers to swap");
     int a = int.Parse(Console.ReadLine());
     int b = int.Parse(Console.ReadLine());
     int c = int.Parse(Console.ReadLine());
     int d = int.Parse(Console.ReadLine());
     a = a + b;
     b = a - b;
     a = a - b;
     // swapping b and c variables
     b = b + c;
     c = b - c;
     b = b - c;
     // swapping c and d variables
     c = c + d;
     d = c - d;
     c = c - d;
     Console.WriteLine("After swapping:");
     Console.WriteLine("a= " + a);
     Console.WriteLine("b= " + b);
     Console.WriteLine("c= " + c);
     Console.WriteLine("d= " + d);
```

{

```
Console.ReadKey();
    }
  }
}
Output:
enter 4 numbers to swap
2
4
5
7
After swapping:
a= 4
b= 5
c=7
d= 2
Program 17: WCP to sort an array.
using System;
namespace Ass2_17
{
  class Program
  {
     static void Main(string[] args)
     {
       int[] arr = new int[] { 1, 9, 6, 7, 5, 9 };
```

```
int temp;
        for (int i = 0; i < arr.Length - 1; i++)
           for (int j = i + 1; j < arr.Length; j++)
             if (arr[i] < arr[j])
             {
                temp = arr[i];
                arr[i] = arr[j];
                arr[j] = temp;
             }
        foreach (int value in arr)
        {
           Console.Write(value + " ");
        }
        Console.ReadKey();
     }
  }
}
Output:
997651
```

Program 18: WCP to implement function.

```
using System;
namespace Ass2_18
{
  class Program
  {
     public int sum(int a,int b)
     {
       Console.WriteLine("sum is: " + (a + b));
       Console.ReadKey();
       return 0;
     static void Main(string[] args)
     {
       int a = 10, b=20;
       Program program = new Program();
       program.sum(a,b);
    }
  }
}
Output:
Sum is: 30
```

Program 19:

```
WCP to print
using System;
namespace Ass2_19
{
  class Program
  {
     static void Main(string[] args)
     {
       for (int i = 1; i \le 5; i++)
       {
          for (int j = 1; j \le i; j++)
          {
            Console.Write("* ");
          }
          Console.WriteLine();
       }
       Console.ReadKey();
     }
  }
}
```

Program 20:

```
WCP to print
 1
 12
 123
 1234
using System;
namespace Ass2_20
{
  class Program
  {
    static void Main(string[] args)
    {
       for (int i = 1; i < 5; i++)
       {
         for (int j = 1; j \le i; j++)
            Console.Write(j.ToString());
         Console.WriteLine();
       }
    }
  }
}
Program 21:
WCP to print
     1
    21
   321
 4321
```

```
using System;
namespace Ass2_21
{
  class Program
  {
     static void Main(string[] args)
     {
        int i, j, k;
        for (i = 1; i < 5; i++)
        {
          for (k = 5 - i; k > 0; k--)
             Console.Write(" ");
          }
          for (j = i; j >= 1; j--)
             Console.Write(j);
           }
          Console.WriteLine();
       }
     }
  }
}
```

Program 22:

```
WCP to print
     1
    22
   333
 4444
using System;
namespace ass2_22
{
  class Program
  {
     static void Main(string[] args)
     {
       int i, j, k;
       for (i = 1; i < 5; i++)
       {
          for (k = 5 - i; k > 0; k--)
          {
            Console.Write(" ");
          }
          for (j = i; j >= 1; j--)
          {
            Console.Write(i);
          }
          Console.WriteLine();
```

```
}
}
}
```

Program 23:

```
WCP to print
 1
 18
 1827
 182764
using System;
namespace Ass2_23
  class Program
  {
    static void Main(string[] args)
    {
       for (int i = 1; i < 5; i++)
       {
         for(int j=1;j<=i;j++)
         {
            Console.Write(j * j * j );
            Console.Write(" ");
         Console.WriteLine();
       } }}}
```