Practical File



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C#.NET

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1. Write a program to print Armstrong Numbers

```
using System;
namespace myproject
    public class Armstrong
        public static void Main(string[] args)
            Console.WriteLine("A program to check the given number
is Armstrong Number or not");
            int n, m, num, d;
            double result = 0, number;
            Console.WriteLine("Enter the number of iterations: ");
            n = int.Parse(Console.ReadLine());
            for (m = 0; m < n; m++)
            {
                Console.WriteLine("Enter the number of digits: ");
                d = int.Parse(Console.ReadLine());
                Console.WriteLine("Enter the number: ");
                num = int.Parse(Console.ReadLine());
                number = num;
                for (int i = 0; i < d; i++)
                    int rem = num % 10; //split last digit from
number
                    double power = Math.Pow(rem, d);
                    //Console.WriteLine(power);
                    result = result + power;
                    num = num / 10;
                if (number == result)
                {
                    Console.WriteLine(number + " Armstrong
number.");
                    result = 0;
                }
                else
                {
                    Console.WriteLine(number + " NOT an Armstrong
number");
                    result = 0;
                    Console.ReadLine();
                }
            }
        }
    }
}
```

```
A program to check the given number is Armstrong Number or not Enter the number of iterations:

Benter the number of digits:

Enter the number:

151

151 NOT an Armstrong number

Enter the number of digits:

Enter the number of digits:

A comparison of the number of digits:

A comparison of
```

2. Write a program to print factorial of a number

```
using System;
namespace myproject
{
    public class Factorial
    {
        public static void Main(string[] args)
        {
             Console.WriteLine("A program to print factorial of the given number n");
            int m, n, fact = 1;

            Console.WriteLine("Enter the value of n: ");
            n = int.Parse(Console.ReadLine());
            for (m = 1; m <= n; m++)
            {
                  fact = fact * m;
             }
             Console.WriteLine(fact);
            Console.ReadLine();
        }
    }
}</pre>
```

```
A program to print factorial of the given number n
Enter the value of n:
6
720
```

3. Write a program to find the GCD of two numbers

```
using System;
namespace myproject
    public class GCD
        public static void Main(string[] args)
            int n, a, b, gcd = 1, temp;
            Console.WriteLine("A program to find out the GCD of
two numbers");
            Console.WriteLine("Enter the number of iterations: ");
            n = int.Parse(Console.ReadLine());
            for (int i = 0; i < n; i++)
                 Console.WriteLine("Enter the no.:");
                 a = int.Parse(Console.ReadLine());
                 b = int.Parse(Console.ReadLine());
                  for (int z = 1; z \le a \&\& z \le b; z + +)
                       {
                           if (a\%z==0 \&\& b\%z==0)
                                gcd = z;
                 while (b != 0)
                 {
                     temp = b;
                     b = a % b;
                     a = temp;
                 }
                 qcd = a;
                 Console.WriteLine("GCD = " + gcd);
                 Console.ReadLine();
            }
        }
    }
```

```
A program to find out the GCD of two numbers
Enter the number of iterations:
2
Enter the no.:
46
14
GCD = 2
Enter the no.:
132
234
GCD = 6
```

4. Write a program to check if a number is prime number

```
using System;
namespace myproject
    public class Prime
        public static void Main(string[] args)
            Console.WriteLine("A program to check the number is
prime or not.");
            int m, n, count = 0, i, j;
            Console.WriteLine("Enter the number of iterations: ");
            j = int.Parse(Console.ReadLine());
            for (i = 0; i < j; i++)
                Console.WriteLine("Enter the number: ");
                n = int.Parse(Console.ReadLine());
                for (m = 2; m \le n / 2; m++)
                    if (n % m == 0)
                        count = count + 1;
                    }
                if (count == 0)
                    Console.WriteLine("This number " + n + " is a
prime number");
                else
                    Console.WriteLine("This number " + n + " is
NOT a prime number");
                    count = 0;
                }
            }
        }
}
```

```
A program to check the number is prime or not.
Enter the number of iterations:

Benter the number:

This number 0 is a prime number
Enter the number:

This number 32 is NOT a prime number
```

5. Write a program to print the Fibonacci series

```
using System;
namespace myproject
    public class Fibonacci
        public static void Main(string[] args)
            Console.WriteLine("A program to print fibonacci series
of n terms");
            int m, n, a = 0, b = 1;
            Console.WriteLine("Enter the value: ");
            n = int.Parse(Console.ReadLine());
            Console.WriteLine("Fibonacci Serise: ");
            for (m = 1; m \le n; m++)
                Console.WriteLine(a);
                int next = a + b;
                a = b;
                b = next;
            }
}
```

```
A program to print fibonacci series of n terms
Enter the value of n:
15
Fibonacci Series:
0
1
2
3
5
8
13
21
34
55
89
144
233
377
```

6. Write a program to print the half pyramid pattern

```
using System;
namespace myproject
    public class Pattern HalfPyramid
        public static void Main(string[] args)
            int space, rows;
            Console.WriteLine("A program to print half pyramid
pattern");
            Console.WriteLine("Enter the number of rows:");
            rows = int.Parse(Console.ReadLine());
            for (int i = 0; i <= rows; i++)
                 for (int star = 0; star < i; star++)</pre>
                     Console.Write("*");
                 for (space = i; space < rows; space++)</pre>
                     Console.Write(" ");
                 Console.WriteLine();
                 Console.ReadLine();
            }
        }
    }
}
```

7. Write a program to print the half pyramid pattern with numbers

```
using System;
namespace myproject
    public class Pattern HalfPyramidNum
        public static void Main(string[] args)
            int space, rows;
            Console.WriteLine("A program to print half pyramid
pattern of numbers:");
            Console.WriteLine("Enter the number of rows:");
            rows = int.Parse(Console.ReadLine());
            Console.WriteLine();
            for (int i = 1; i <= rows; i++)
                 for (int num = 1; num <= i; num++)</pre>
                     Console.Write(num);
                 for (space = i; space < rows; space++)</pre>
                     Console.Write(" ");
                 Console.WriteLine();
                 Console.ReadLine();
            }
        }
    }
}
```

```
A program to print half pyramid pattern of numbers:
Enter the number of rows:

1

12

123

1234

12345
```

8. Write a program to print the half pyramid inverse pattern

```
using System;
namespace myproject
    public class Pattern HalfInversePyramid
        public static void Main(string[] args)
            int space, rows;
            Console.WriteLine("A program to print half pyramid
inverse pattern");
            Console.WriteLine("Enter the number of rows:");
            rows = int.Parse(Console.ReadLine());
            Console.WriteLine();
            for (int i = 0; i <= rows; i++)
                 for (int star = rows; star > i; star--)
                    Console.Write("*");
                for (space = i; space < rows; space++)</pre>
                    Console.Write(" ");
                Console.WriteLine();
                Console.ReadLine();
            }
        }
    }
}
```

9. Write a program to print the pyramid pattern

```
using System;
namespace myproject
    public class Pattern pyramid
        public static void Main(string[] args)
            int space, rows;
            Console.WriteLine("A program to print pyramid
pattern");
            Console.WriteLine("Enter the number of rows:");
            rows = int.Parse(Console.ReadLine());
            for (int i = 1; i <= rows; i++)
                for (space = i; space < rows; space++)</pre>
                    Console.Write(" ");
                for (int star = 1; star < (i * 2); star++)
                    Console.Write("*");
                Console.WriteLine();
                Console.ReadLine();
            }
        }
    }
}
```

10. Write a program to print the inverse pyramid pattern

```
using System;
namespace myproject
    public class Pattern PyramidInverse
        public static void Main(string[] args)
            int space, rows;
            Console.WriteLine("A program to print inverse pyramid
pattern");
            Console.WriteLine("Enter the number of rows:");
            rows = int.Parse(Console.ReadLine());
            for (int i = rows; i >= 1; i--)
                for (space = i; space <= rows; space++)</pre>
                     Console.Write(" ");
                for (int star = (i * 2); star > 1; star--)
                     Console.Write("*");
                Console.WriteLine();
                Console.ReadLine();
            }
        }
    }
}
}
```

```
A program to print inverse pyramid pattern
Enter the number of rows:

5
******

****

***

***

***

***
```

11. Write a program to print the diamond pattern

```
using System;
namespace myproject
    public class Pattern diamond
        public static void Main(string[] args)
            int rows, i, j, space;
            Console.Write("Enter the number of rows: ");
            rows = int.Parse(Console.ReadLine());
            for (i = 0; i \le rows / 2; i++)
                for (space = i; space < rows / 2; space++)</pre>
                    Console.Write(" ");
                for (j = 0; j \le i * 2; j++)
                    Console.Write("*");
                Console.WriteLine();
            for (i = rows / 2 + 1; i >= 1; i--)
                for (space = i; space <= rows / 2 + 1; space++)
                    Console.Write(" ");
                for (j = i * 2 - 4; j >= 0; j--)
                    Console.Write("*");
                Console.WriteLine();
                Console.ReadLine();
            }
        }
    }
}
```

```
Enter the number of rows: 6

*

***

***

****

***

***

***
```

12. Write a program to print the Pascal's triangle

```
using System;
namespace myproject
    public class Pascal Triangle
        public static int Factorial(int fact)
            int m, f = 1;
            for (m = 1; m <= fact; m++)
                 f = f * m;
            return f;
        }
        public static int Ncr(int a, int b)
            return Factorial(a) / (Factorial(b) * Factorial(a -
b));
        public static void Main(string[] args)
            int space, rows, c;
            Console.WriteLine("A program to print the Pascal
triangle.");
            Console.WriteLine("Enter the number of rows:");
            rows = int.Parse(Console.ReadLine());
            for (int i = 0; i <= rows; i++)
                 for (space = i; space < rows; space++)</pre>
                     Console.Write(" ");
                 for (int j = 0; j \le i; j++)
                     c = Ncr(i, j);
                     Console.Write(c + " ");
                Console.WriteLine();
                Console.ReadLine();
            }
        }
    }
}
```

```
A program to print the Pascal triangle.
Enter the number of rows:

1
11
12
1331
14641
```

13. Write a program to compare two string without using string library functions

```
using System;
namespace String
{
    public class StringCompare
        public static void Main(string[] args)
            string str1, str2;
            int flag = 0;
            Console.WriteLine("A program to compare two
           strings.");
            Console.WriteLine("Enter string 1: ");
            str1 = Console.ReadLine();
            Console.WriteLine("Enter string 2: ");
            str2 = Console.ReadLine();
            for (int i = 0; i < strl.Length; i++)
                if (str1[i] != str2[i])
                {
                    flag = 0;
                    break;
                }
                else
                    flag = 1;
            }
            if (flaq == 0)
                Console.WriteLine(str1 + " and " + str2 + " are
        NOT equal");
            else if (flag == 1)
                Console.WriteLine(str1 + " and " + str2 + " are
Equal");
Console.readline();
        }
 }
}
```

```
A program to compare two strings.
Enter string 1:
Swasti
Enter string 2:
sti
Swasti and sti are NOT equal
```

```
A program to compare two strings.
Enter string 1:
Swasti
Enter string 2:
Swasti
Swasti
Swasti and Swasti are Equal
```

14. Write a program to count a total number of alphabets, digits and special characters in a string

```
using System;
namespace String
{
    public class StringCount
        public static void Main(string[] args)
            string str;
            int alpha = 0, digit = 0, sym = 0;
            Console.WriteLine("Enter the main string: ");
            str = Console.ReadLine();
            foreach (char s in str)
                 if (s >= 65 \&\& s <= 90 \mid | s >= 97 \&\& s <= 122)
                     alpha += 1;
                else if (s >= 48 \&\& s <= 57)
                     digit += 1;
                 }
                else
                 {
                    sym += 1;
            }
            Console.WriteLine();
            Console.WriteLine("Number of Alphabets: " + alpha);
            Console.WriteLine("Number of Digits: " + digit);
            Console.WriteLine("Number of Special Characters: " +
sym);
            Console.ReadLine();
        }
    }
}
```

```
Enter the main string:
sdfghjklkjh23456!@#$%

Number of Alphabets: 11

Number of Digits: 5

Number of Special Characters: 5
```

15. Write a program to copy one string to another string

```
using System;
namespace String
   public class StringCopy
        public static void Main(string[] args)
            string s1, s2 = "Not Copied";
            Console.WriteLine("A program to copy one string to
another string");
            Console.WriteLine("Enter the string: ");
            s1 = Console.ReadLine();
            foreach (char a in s1)
                s2 = s1;
            Console.WriteLine("String Copied");
            Console.WriteLine("Copied String is: " + s2);
            Console.ReadLine();
        }
    }
}
```

```
A program to copy one string to another string
Enter the string:
Swasti
String Copied
Copied String is: Swasti
```

16. Write a program to find maximum occurring character in a string

```
using System;
namespace Strings
{
    public class StringMax
        public static void Main(string[] args)
            string str;
            int[] count = new int[256];
            Console.WriteLine("Enter the string: ");
            str = Console.ReadLine();
            for (int i = 0; i < str.Length; i++)
                count[str[i]]++;
            int max = -1;
            char result = ' ';
            for (int i = 0; i < str.Length; i++)
                if (max < count[str[i]])</pre>
                    max = count[str[i]];
                     result = str[i];
                }
            Console.WriteLine("Maximum occuring character in
string: " + result);
            Console.ReadLine();
    }
}
```

```
Enter the string:
Swasti
Maximum occuring character in string: S
```

17. Write a program to check whether a given substring is present in the given string

```
using System;
namespace Strings
    public class StringSubString
        public static void Main(string[] args)
            string str, substr;
            Console.WriteLine("A program to check whether a given
substring is present in the given string.");
            Console.WriteLine("Enter the string: ");
            str = Console.ReadLine();
            Console.WriteLine("Enter the Sub-string");
            substr = Console.ReadLine();
            int flag = 0;
            for (int i = 0; i <= str.Length - substr.Length; i++)</pre>
                for (int j = i; j < i + substr.Length; j++)
                    flag = 1;
                    if (str[j] != substr[j - i])
                         flag = 0;
                        break;
                     }
                if (flag == 1)
                    break;
            }
            if (flaq == 1)
                Console.WriteLine("The substring is present in
given String");
            }
            else
                Console.WriteLine("The substring is NOT present in
given String");
                Console.ReadLine();
            }
        }
    }
}
```

```
A program to check whether a given substring is present in the given string.

Enter the string:

Swasti

Enter the Sub-string

sti

The substring is present in given String
```

18. Write a Program for Encapsulation

```
using System;
namespace test
    class Student
        private int roll;
        private string name;
        public int Roll
            get
            {
                return roll;
            set
            {
               roll = value;
        }
        public string Name
            get
                return name;
            }
            set
            {
                name = value;
        }
    }
    class Program
        static void Main(string[] args)
            Student A = new Student();
            A.Roll = 21;
            A.Name = "Swasti";
            Console.WriteLine("Roll: " + A.Roll);
            Console.WriteLine("Name: " + A.Name);
            Console.ReadLine();
        }
    }
```

Output:

Roll: 21 Name: Swasti

19. Write a program for Abstraction

```
using System;
namespace OOPs
    public class Abstraction
        abstract class Cs
            public abstract void Fun();
        private class Good : Cs
            public override void Fun()
                Console.WriteLine("C# is Good");
        }
        private class Best : Cs
            public override void Fun()
                Console.WriteLine("C# is Best");
        private class Better : Cs
            public override void Fun()
                Console.WriteLine("C# is Better");
            }
        }
        public class MyClass
            public static void Main()
                Cs c;
                c = new Good();
                c.Fun();
                c = new Best();
                c.Fun();
                c = new Better();
                c.Fun();
                Console.ReadLine();
            }
    }
}
```

```
C# is Good
C# is Best
C# is Better
```

20. Write a program for single Inheritence

```
using System;
namespace OOPs
{
    public class Inheritence
        class MainClass
            public void Print()
                Console.WriteLine("Print");
        }
        class Subclass : MainClass
            void Print1()
                Console.WriteLine("Print 2");
            static void Main(string[] args)
                Subclass s = new Subclass();
                s.Print();
                s.Print1();
                Console.ReadLine();
            }
        }
    }
```

```
Print
Print 2
```

21. Write a program for Multilevel Inheritence

```
using System;
namespace OOPs
{
    public class MultiInheritence
        class MainClass
            public void Print()
                Console.WriteLine("Print");
        }
        class Subclass : MainClass
            public void Print1()
                Console.WriteLine("Print 1");
            }
        }
        class Subclass2 : Subclass
            public void Print2()
                Console.WriteLine("Print 2");
            static void Main(string[] args)
                Subclass2 s = new Subclass2();
                s.Print();
                s.Print1();
                s.Print2();
                Console.ReadLine();
            }
        }
    }
}
```

```
Print
Print 1
Print 2
```

22. Write a program for multiple Inheritence

```
using System;
namespace OOPs
{
    public class MultipleInheritence
        class MainClass
            public void Print()
                Console.WriteLine("Print");
        interface MainClass1
            void Print1();
        class Subclass : MainClass, MainClass1
            void Print2()
                Console.WriteLine("Print 2");
            public void Print1()
                Console.WriteLine("Print 1");
            static void Main(string[] args)
                Subclass s = new Subclass();
                s.Print();
                s.Print1();
                s.Print2();
                Console.ReadLine();
            }
        }
    }
}
```

```
Print
Print 1
Print 2
```

23. Write a program for method overloading

```
using System;
namespace OOPs
    public class MethodOverloading
        static int Sum(int a, int b)
            return a + b;
        static double Sum(double a, double b)
            return a + b;
        public static void Main()
            int sum1 = Sum(73, 34);
            double sum2 = Sum(75.84, 74.16);
            Console.WriteLine(sum1);
            Console.WriteLine(sum2);
            Console.ReadLine();
        }
   }
}
```

Output:

107 150

24. Write a program for method overriding

```
using System;
namespace OOPs
    public class MethodOverriding
        public class Cs
            public virtual void Fun()
                Console.WriteLine("B.Sc");
        }
        public class MCA : Cs
            public override void Fun()
                Console.WriteLine("MCA");
            }
        private class BCA : Cs
            public override void Fun()
                Console.WriteLine("BCA");
            }
        }
        public static void Main()
            Cs c;
            c = new BCA();
            c.Fun();
            c = new MCA();
            c.Fun();
            Console.ReadLine();
        }
    }
}
```



25. Write a program for Interface

```
using System;
namespace OOPs
{
    public class Interface
        public interface Cs
            void Fun();
        private class Bca : Cs
            public void Fun()
                Console.WriteLine("BCA");
        private class Mca : Cs
            public void Fun()
                Console.WriteLine("MCA");
        }
        public class MyClass
            public static void Main(string[] args)
                Cs c;
                c = new Bca();
                c.Fun();
                c = new Mca();
                c.Fun();
                Console.ReadLine();
            }
        }
    }
}
```



26. Write a program for Namespace

```
using System;
namespace ConsoleApp1
    class Program
        static void Main(string[] args)
            A.B test = new A.B();
            test.C();
    }
}
namespace A
{
    public class B
        public void C()
        {
            Console.WriteLine("Hi");
            Console.ReadLine();
    }
}
```



27. Write a program for exception handling through try and catch

```
using System;
namespace ConsoleApp
{
    class Program
        static void Main(string[] args)
            int[] myNumbers = { 1, 2, 3, 4 };
            try
            {
                Console.WriteLine(myNumbers[5]);
            catch (Exception c)
                Console.WriteLine(c.Message);
                Console.ReadLine();
            }
        }
    }
}
```

Output:

Index was outside the bounds of the array.

28. Write a program for Properties

```
using System;
namespace OOPBasics
{
    public class Properties
        public class CSharp
            public int roll;
            public string name;
            private string Result;
            public CSharp(int a, string b, string c)
                roll = a;
                name = b;
                Result1 = c;
            public string Result1
                get
                 {
                     return Result;
                 }
                set
                 {
                     if (value == "good" || value == "average" ||
value == "bad")
                     {
                         Result = value;
                     }
                     else
                     {
                         Result = "Not Valid";
                     }
                 }
            }
        }
    }
    class Program
        static void Main(string[] args)
            Properties.CSharp c1 = new Properties.CSharp(1, "Xyz",
"good");
            Properties.CSharp c2 = new Properties.CSharp(2, "Ijk",
"5");
```

```
1 Abc good
2 Xyz Not Valid
```

29. Write a program for Constructors

```
using System;
using OOPBasics;
namespace OOPBasics
    class Constructor
        public class CSharp
            public int roll;
            public string name;
            public int marks;
            public CSharp(int a, string b, int c)
                roll = a;
                name = b;
                marks = c;
            }
        }
    }
    public class MyClass
        public static void Main(string[] args)
            Constructor.CSharp a = new Constructor.CSharp(21,
"Swasti", 7);
            Console.WriteLine("Roll: " + a.roll + "\nName: " +
a.name + "\nMarks: " + a.marks);
            Console.ReadLine();
        }
    }
}
```

```
Roll: 21
Name: Swasti
Marks: 7
```

30. Write a program for Threading

```
using System;
using System. Threading;
namespace Threading
    class Program
        static void T1()
            Console.WriteLine("Thread1 Started");
            Thread.Sleep (5000);
            Console.WriteLine("Thread1 executing");
            Thread.Sleep (5000);
            Console.WriteLine("Thread1 executing");
        }
        static void T2()
            Console.WriteLine("Thread2 Started");
            Thread.Sleep (5000);
            Console.WriteLine("Thread2 executing");
            Thread.Sleep (5000);
            Console.WriteLine("Thread2 executing");
        }
        public static void Main()
            Thread t1 = new Thread(T1);
            Thread t2 = new Thread(T2);
            t1.Start();
            t2.Start();
            Console.ReadLine();
        }
    }
}
```

```
Thread1 Started
Thread2 Started
Thread1 executing
Thread2 executing
Thread1 executing
Thread1 executing
Thread2 executing
```

31. Write a program for Indexer

```
using System;
class IndexerCreation
    private string[] val = new string[4];
    public string this[int index]
    {
        get
        {
            return val[index];
        set
            val[index] = value;
    }
}
class MyClass
    public static void Main()
        IndexerCreation ic = new IndexerCreation();
        ic[0] = "Amisha";
ic[1] = "Gaurvi";
        ic[2] = "Shail";
        ic[3] = "Swasti";
        Console.Write("Printing values stored in objects used as
arrays\n");
        Console.WriteLine(ic[0] + "\n" + ic[1] + "\n" + ic[2] +
"\n" + ic[3]);
        Console.ReadLine();
   }
}
```

```
Printing values stored in objects used as arrays
Amisha
Gaurvi
Shail
Swasti
```

32. Write a program to access data from database using ADO.NET

```
using System;
using System. Data;
using System.Data.SqlClient;
namespace test
    class Program
        public static void Main(string[] args)
            string connectionString;
            SqlConnection conn;
            connectionString = @"Data Source=DESKTOP-
VPKMCMC\SQLEXPRESS; Initial Catalog=demo; Trusted Connection=true";
            conn = new SqlConnection(connectionString);
            conn.Open();
            Console.WriteLine("Connected to Database!");
            string query = "select * from student";
            SqlCommand cmd = new SqlCommand(query, conn);
            SqlDataReader dataReader = cmd.ExecuteReader();
            Console.WriteLine(dataReader.GetName(0) + "
                                                             "+da-
taReader.GetName(1)+"
                           "+dataReader.GetName(2));
        while (dataReader.Read())
                Console.WriteLine(dataReader.GetValue(0) + " " +
               dataReader.GetValue(1) + " " + dataReader.Get-
Value(2));
            Console.ReadLine();
            conn.Close();
        }
    }
}
```

```
Connected to Database!
RollNo. Name Marks
1824001 Abhijeet 7
1824003 Aman 6
1824004 Amisha 7
!824005 Amit 8
1824006 Aniket 8
```