

DEPARTMENT OF COMPUTER SCIENCE

INDEX

SR.NO	PRACTICLE NAME	DATE	REMARK
1.	WAP in C# to Print Even or Odd Number.	7-3-2022	
2.	WAP in C# to check whether the input year is a leap year or not.	9-3-2022	
3.	WAP in C# by using for loop to print following pattern. 1 23 456 78910	14-3-2022	
4.	WAP in C# to generate Following pattern. 1 22 333 4444 55555	16-3-2022	
5.	WAP in C# to produce following pattern. 1 01 101 0101 10101	21-3-2022	
6.	WAP in C# generate following pattern. A B A B C B A B C D C B A B C D	23-3-2022	
7.	WAP in C# to Generate Following Pattern. 1 12 123 1234 12345	28-3-2022	
8.	WAP in C# to Generate Following Pattern. * ** *** ****	30-3-2022	
9.	WAP in C# to Generate Following Pattern. \$\$\$\$\$ \$\$\$\$ \$\$\$ \$\$ \$	4-4-2022	Rhavon 23/05/2022
10.	WAP on C# to check whether input Character is consonant or Vowels.	6-4-2022	

11.	WAP in C# using switch and if statement to compute the net amount to be paid by customer in a cloths showroom has announced the following seasonable discount on purchased of items.	11-4-2022
12.	WAP in C# to check whether the input number is prime or not.	13-4-2022
13.	WAP in C# to generate Fibonacci triangle of number.	18-4-2022
14.	WAP in C# to calculate area of rectangle by using classes and object.	25-4-2022
15.	WAP In C# to define cube method for calculating cube.	27-4-2022
16.	WAP in C# to demonstration static method for calculate the square of input number.	27-4-2022
17.	WAP in C# to print the multiplication table from 1 to 10.	2-5-2022
18.	WAP In C# to Demonstrate Pass by value.	2-5-2022
19.	WAP in C# to Demonstrate Pass by reference.	4-5-2022
20.	WAP in C# to implement method overriding mechanism.	4-5-2022
21.	WAP in C# to sort the given list in descending order.	9-5-2022
22.	WAP in C# to demonstrate use of enum.	9-5-2022
23.	WAP in C# to demonstrate use of structure.	11-5-2022
24.	WAP in C# to demonstrate of try and catch mechanism for exception handling.	11-5-2022
25.	WAP in C# to Demonstrate the different exceptions.	18-5-2022
26.	WAP n C# to write user input to a file using a StreamWriter class.	18-5-2022
27.	WAP in C# to read file by using StreamReader class.	23-5-2022

Qhava
23/05/22

hava
ui

Department of Computer Science

//Write a program in c# whether input number is even or odd by using if else statement

```
using System;
class evenodd
{
    public static void Main(string[] args)
    {
        int i;
        Console.Write("Enter a Number : ");
        i=int.Parse(Console.ReadLine());
        if (i%2==0)
        {
            Console.Write("Entered Number is an Even Number");
            Console.Read();
        }
        else
        {
            Console.Write("Entered Number is an Odd Number");
            Console.Read();
        }
    }
}
```

Output:

```
D:\pri>evenodd
Enter a Number : 10
Entered Number is an Even Number
```

```
D:\pri>evenodd
Enter a Number : 13
Entered Number is an Odd Number
```

Khavan
4/4/2022

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WAP in C# to check whether the input year is leap year or not leap year.

```
using System;
class Ifelse
{
    public static void Main(String[]args)
    {
        int chk_y;
        Console.Write("\n\n");
        Console.Write("check whither a given year is leap year or not :\n");
        Console.Write(".....");
        Console.Write("\n\n");
        Console.Write("Input an year :");
        chk_y=Convert.ToInt32(Console.ReadLine());
        if((chk_y%400)==0)
            Console.WriteLine("{0} is a leap year\n",chk_y);
        else if((chk_y%100)==0)
            Console.WriteLine("{0} is not leap year\n",chk_y);
        else if((chk_y%4)==0)
            Console.WriteLine("{0} is a leap year\n",chk_y);
        else
            Console.WriteLine("{0} is not leap year\n",chk_y);
    }
}
```

OutPut :-

E:\Priya>Ifelse
check whither a given year is leap year or not :
.....

Input an year :2023
2023 is not leap year

E:\Priya>Ifelse
check whither a given year is leap year or not :
.....

Input an year :2024
2024 is a leap year

*Phaven
4/4/2022*

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Write a Program in C# by using for loop to print following pattern.

```
using System;
class Pattern
{
    public static void Main()
    {
        int r=4,n=1;
        for(int i=1;i<=r;i++)
        {
            for(int j=1;j<=i;j++)
            {
                Console.Write(n);
                n++;
            }
            Console.WriteLine();
        }
    }
}
```

Output:

```
D:\priya30>csc Pattern.cs
D:\priya30>Pattern
1
23
456
78910
```

```
D:\priya30>
```

lavan
22/04/2022

Department of Computer Science

Write a Program in C# to print following pattern.

```
using System;
class Pattern1
{
    static void Main()
    {
        Console.Write("Enter the No of Rows:");
        int row=Convert.ToInt32(Console.ReadLine());
        for(int i=1;i<=row;i++)
        {
            for(int j=row;j>=1;j--)
            {
                if(j<=i)
                {
                    Console.Write(i+ " ");
                }
                else
                {
                    Console.Write(" ");
                }
            }
            Console.WriteLine();
        }
    }
}
```

Output:

```
D:\pri12>Pattern1
Enter the No of Rows:5
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

X
04/2022

1748

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Write a program to Produce the following number pattern by using for loop.

```
using System;
class Patternn
{
    public static void Main()
    {
        int rows=5;
        for (int i = 1; i <= rows; i++)
        {
            int num;
            if(i%2 == 0)
            {
                num = 0;
                for (int j = 1; j <= i; j++)
                {
                    Console.Write(num);
                    num = (num == 0)? 1 : 0;
                }
            }
            else
            {
                num = 1;
                for (int j = 1; j <= i; j++)
                {
                    Console.Write(num);
                    num = (num == 0)? 1 : 0;
                }
            }
            Console.WriteLine();
        }
    }
}
```

OUTPUT:

E:\priya>CSC Patternn.cs

E:\priya>Patternn

1

01

101

0101

10101

~~Ahavan
6/4/2022~~

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WAP in C# generate following pattern.

```
A  
B A B  
C B A B C  
D C B A B C D  
E D C B A B C D E
```

```
using System;  
  
class AlphaPattern  
{  
    static public void Main()  
    {  
        int i, j, n;  
        Console.Write("Enter the no of lines:");  
        n = Convert.ToInt32(Console.ReadLine());  
        for (i = 1; i <= n; i++)  
        {  
  
            for (j = 1; j <= n - i; j++)  
            {  
                Console.Write(" ");  
            }  
            for (j = i; j > 0; j--)  
            {  
                Console.Write(" " + (char)(j + 64));  
            }  
            for (j = 2; j <= i; j++)  
            {  
                Console.Write(" " + (char)(j + 64));  
            }  
  
            Console.WriteLine();  
        }  
    }  
}
```

Output:

```
C:\Users\Admin\Desktop>AlphaPattern  
Enter the no of lines:5
```

```
A  
B A B  
C B A B C  
D C B A B C D
```

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Write a Program in C# to enter the following pattern.

```
using System;
class Pattern43
{
    static void Main()
    {
        int n;
        Console.Write("Enter Limit:");
        n=Convert.ToInt32(Console.ReadLine());
        for(int i=1;i<=n;i++)
        {
            for(int j=1;j<=i;j++)
            {
                Console.Write(j);
            }
            Console.WriteLine();
        }
    }
}
```

Output:

```
D:\fgh>csc Pattern43.cs
D:\fgh>Pattern43
Enter Limit:5
1
12
123
1234
12345
```

*Bharat
13/03/2022*

Department of Computer Science

WAP in C# to Print Following Pattern Using Jumping Statement.

```
using System;
class JumpStatement
{
    static void Main()
    {
        Console.WriteLine("Enter The Number of Rows:");
        int row=Convert.ToInt32(Console.ReadLine());
        for(int i=1;i<=100;i++)
        {
            Console.WriteLine(" ");
            if(i>row)
                break;
            for(int j=1;j<=100;j++)
            {
                Console.Write(" * ");
                if(j==i)
                    goto loop1;
            }
            loop1:continue;
        }
        Console.WriteLine("Termination by BREAK");
    }
}
```

OUTPUT:

```
C:\Users\Admin\Desktop\ABC>JumpStatement
Enter The Number of Rows:4
```

```

*
* *
* * *
* * * *
```

```
Termination by BREAK
```

✓
10/04/2022

Write a program in C# to produce the following Doller Pattern.

```
using System;
class DollerPattern
{
    public static void Main()
    {
        int r;
        Console.Write("Enter the limit to print Pattern: ");
        r = Convert.ToInt32(Console.ReadLine());
        for (int i = r; i >= 1; i--)
        {
            for(int j = i; j >= 1; j--)
            {
                Console.Write("$");
            }
            Console.WriteLine();
        }
    }
}
```

OUTPUT:

```
E:\SH>DollerPatern
Enter the limit to print Pattern: 9
$$$$$$$$$$
$$$$$$$$$$
$$$$$$$$
$$$$$$
$$$$
$$$
```

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Write a Program in C# to check whether input character is vowel or consonant.

```
using System;
class Vowel
{
    public static void Main()
    {
        char ch;
        Console.Write("Enter any Alphabet:");
        ch=Convert.ToChar(Console.ReadLine());
        switch(ch)
        {
            case'a':
            case'e':
            case'i':
            case'o':
            case'u':
                Console.Write("Input Character is Vowel:");
                break;
            default:Console.Write("Input character is Consonant.");
                break;
        }
    }
}
```

Output:

```
D:\pk>Vowel
Enter any Alphabet:p
Input character is Consonant.
```

```
D:\pk>Vowel
Enter any Alphabet:e
Input Character is Vowel:
D:\pk>
```

25/04/2022

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WAP in using switch and if statement to compute the net amount to be paid by customers in a cloths showroom has announced the following seasonable discount on purchased of items.

```
using System;
class Discount
{
    public static void Main()
    {
        Console.WriteLine("Enter the item type(m/h)");
        string c = Console.ReadLine();
        Console.WriteLine("Enter the cost:");
        double cost=Convert.ToDouble(Console.ReadLine());
        double dis=discount(c,cost);
        double netAmt=cost - dis;
        Console.WriteLine("The net paid amount=" +netAmt);
    }
    public static double discount(string type,double cost)
    {
        double dis = 0;
        double rate =0;
        switch(type)
        {
            case "m":
                if(cost>100 && cost <= 200)
                {
                    rate = 5;
                }
                else if(cost >200 && cost <=300)
                {
                    rate = 7.5;
                }
                else if(cost >300)
                {
                    rate =10;
                }
                break;
            case "h":
                if (cost > 0 && cost <= 100)
                {
```

```
rate = 5;
}
else if(cost >100 && cost <= 200)
{
    rate = 7.5;
}
else if(cost > 200 && cost <= 300)
{
    rate = 10;
}
else if(cost > 300)
{
    rate = 15;
}
break;
}
dis = cost * rate / 100;
return dis;
}
```

OUTPUT:

```
D:\GAYATRI>Discount
Enter the item type(m/h)
m
Enter the cost:
300
The net paid amount=277.5
```

```
D:\GAYATRI>Discount
Enter the item type(m/h)
h
Enter the cost:
200
The net paid amount=185
```

Q1/1052022

Department of Computer Science

Write a program in c# to check wheather the input no. is prime or not.

```
using System;
class PrimeNumber
{
    public static void Main()
    {
        int n,i,m=0,flag=0;
        Console.Write("Enter the number to check prime : ");
        n=int.Parse(Console.ReadLine());
        m=n/2;
        for(i=2; i<m; i++)
        {
            if(n% i==0)
            {
                Console.Write("number is not prime: ");
                flag=1;
                break;
            }
        }
        if(flag==0)
            Console.Write("number is prime: ");
    }
}
```

Output

```
D:\>cd awd
D:\awd>csc PrimeNumber.cs
D:\awd>PrimeNumber
Enter the number to check prime : 3
number is prime
```

```
D:\awd>PrimeNumber
Enter the number to check prime : 9
number is not prime:
```

27/04/2022

Department of Computer Science

WAP in C# to generate fibbonaccies triangle of numbers.

```
using System;
class PrintTriangle
{
    public static void Main()
    {
        int a=0,b=1,i,c,n,j;
        Console.Write("Enter the limit to print Tringle:");
        n=int.Parse(Console.ReadLine());
        for(i=1;i<=n;i++)
        {
            a=0;
            b=1;
            Console.Write(b+"\t");
            for(j=1;j<i;j++)
            {
                c=a+b;
                Console.Write(c+"\t");
                a=b;
                b=c;
            }
            Console.Write("\n");
        }
    }
}
```

Output:-

```
E:\we>csc PrintTriangle.cs
E:\we>PrintTriangle
Enter the limit to print Tringle:5
```

```
1
1   1
1   1   2
1   1   2   3
1   1   2   3   5
```

*Ghavari
28/04/2022*

Department of Computer Science

WAP to calculate area of rectangle by using classes and object.

```
using System;
class Rectangle
{
    public int length , width;
    public void GetData(int x, int y)
    {
        length = x;
        width = y;
    }
    public int RectArea()
    {
        int area = length * width;
        return(area);
    }
}
class RectArea
{
    public static void Main()
    {
        int area1, area2;
        Console.WriteLine("Enter the length of first Rectangle : ");
        int length1 = Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Enter the width of first Rectangle : ");
        int width1 = Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Enter the length of second Rectangle : ");
        int length2 = Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Enter the width of second Rectangle : ");
        int width2 = Convert.ToInt32(Console.ReadLine());
        Rectangle rect1 = new Rectangle();
        Rectangle rect2 = new Rectangle();
        rect1.length = length1;
        rect1.width = width1;
        area1 = rect1.length * rect1.width;
        rect2.GetData(length2, width2);
        area2 = rect2.RectArea();
        Console.WriteLine("Area of first rectangle is: " + area1);
        Console.WriteLine("Area of second rectangle is:" + area2);
    }
}
```

OUTPUT:

E:/abc12>RectArea
Enter the length of first Rectangle : 30
Enter the width of first Rectangle : 30
Enter the length of second Rectangle : 40
Enter the width of second Rectangle : 40
Area of first rectangle is: 900
Area of second rectangle is: 1600

Department of Computer Science

Write a Program in C# define cube method for calculating cube.

```
using System;
class method
{
    public int cube(int x)
    {
        return(x*x*x);
    }
}
class methodtest
{
    static void Main()
    {
        int y,n;
        method m=new method();
        Console.Write("Enter Number :");
        n=Convert.ToInt32(Console.ReadLine());
        y=m.cube(n);
        Console.Write("Cube of Number is :" +y);
    }
}
```

Output:

```
E:\kd>methodtest
Enter Number :12
Cube of Number is :1728
```

27/04/2022

Department of Computer Science

Write a Program in c# demonstrate static method for calculating square of input number

```
using System;
class Static_method
{
    public static void Main()
    {
        int n,a;
        Console.Write("Enter any number:");
        n=Convert.ToInt32(Console.ReadLine());
        a=square(n);
        Console.WriteLine("Square of number is:" +a);
    }
    static int square(int x)
    {
        return(x*x);
    }
}
```

Output:

```
D:\p1>Static_method
Enter any number:5
Square of number is:25
```

```
D:\p1>
```

27/04/2022

Department of Computer Science

WAP in C# to print a multiplication table from 1to10.

```
using System;
class DoWhile
{
    public static void Main()
    {
        int row,column,y;
        row=1;
        Console.WriteLine("Multiplication Table \n");
        do
        {
            column=1;
            do
            {
                y=row*column;
                Console.Write(" " +y);
                column=column+1;
            }
            while(column<=10);
            Console.WriteLine("\n");
            row=row+1;
        }
        while(row<=10);
    }
}
```

Output:

D:\msc1>DoWhile
Multiplication Table

1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

04/2022

Department of Computer Science

WAP in C# Demonstrate pass by value.

```
using System;
class PassByValue
{
    static void change (int m)
    {
        m=m+10;
        Console.WriteLine("Value of m is :" +m);
    }
    public static void Main()
    {
        Console.WriteLine("enter the value of x :");
        int x =Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("value of X is :" +x);
        change (x);
    }
}
```

OUTPUT:

```
E:\asd>PassByValue
enter the value of x :
30
value of X is : 30
Value of m is : 40
```

12/05/2022

Institute of Computer Science

WAP in C# to demonstrate pass by reference.

```
using System;
class PassByRef
{
    static void swap(ref int x, ref int y)
    {
        int temp = x;
        x = y;
        y = temp;
    }
    public static void Main()
    {
        int m = 200;
        int n = 400;
        Console.WriteLine("Before swapping value=");
        Console.WriteLine("m=" + m);
        Console.WriteLine("n=" + n);
        swap(ref m, ref n);
        Console.WriteLine("After swapping value");
        Console.WriteLine("m=" + m);
        Console.WriteLine("n=" + n);
    }
}
```

OUTPUT:

```
E:\abc>PassByRef
Before swapping value=
m=200
n=400
After swapping value
m=400
n=200
```

BOSTON

Computer Science

WAP in C# to implement method overriding mechanism.

```
using System;
class super
{
protected int x;
public super(int x)
{
this.x=x;
}
public virtual void display()
{
Console.WriteLine("super x=" +x);
}
}
class sub:super
{
int y;
public sub(int x,int y):base(x)
{
this.y=y;
}
public override void display()
{
Console.WriteLine("super x=" +x);
Console.WriteLine("sub y=" +y);
}
}
class OverrideTest
{
public static void Main()
{
Console.WriteLine("Enter the Values of x and y: ");
int x=Convert.ToInt32(Console.ReadLine());
int y=Convert.ToInt32(Console.ReadLine());
sub s1=new sub(x,y);
s1.display();
}
}
```

****OUTPUT****

D:\Priya>CSC OverrideTest.cs

D:\ Priya>OverrideTest

Enter the Values of x and y:

200

300

super x=200

sub y=300

Dhawan
22/04/2022

Department of Computer Science

WAP in C# to sort the given list in decending order.

```
using System;
class Sort
{
    public static void Main()
    {
        Console.WriteLine("Length of Array");
        int n=Convert.ToInt32(Console.ReadLine());
        int[] number= new int[n];
        Console.Write("Enter Array Element\n");
        for(int i=0; i<n; i++)
        {
            number[i]=Convert.ToInt32(Console.ReadLine());
        }
        Console.Write("Given Array:");
        for(int i=0; i<n; i++)
        {
            Console.Write(" " + number[i]);
        }
        Console.Write("\n");
        for(int i=0; i<n; i++)
        {
            for(int j=i+1; j<n; j++)
            {
                if(number[i]<number[j])
                {
                    int temp=number[i];
                    number[i]=number[j];
                    number[j]=temp;
                }
            }
        }
        Console.Write("sorted list:");
        for(int i=0; i<n; i++)
        {
            Console.Write(" "+number[i]);
        }
        Console.WriteLine(" ");
    }
}
```

}

OUTPUT:

C:\Users\Admin\Desktop>Sort

Length of Array

5

Enter Array Element

5

8

44

77

9

Given Array: 5 8 44 77 9

sorted list: 77 44 9 8 5

By Hostman

Write a Program in C# to demonstrate use of Enum.

```
using System;
class EnumProgram
{
    enum Days { Sun, Mon, Tue, Wed, Thu, Fri, Sat };
    static void Main(string[] args)
    {
        int WeekdayStart = (int)Days.Tue;
        int WeekdayEnd = (int)Days.Sat;
        Console.WriteLine("Tuesday: {0}", WeekdayStart);
        Console.WriteLine("Saturday: {0}", WeekdayEnd);
    }
}
```

Output:

```
D:\rty>csc EnumProgram.cs
D:\rty>EnumProgram
Tuesday: 2
Saturday: 6
```

Ghavon
15/05/2022

WAP in C# to display product details by using a structure.

```
using System;
struct Student
{
    public string name;
    public int age;
    public int roll;
}

class StudentTest
{
    static void Main()
    {
        Student s;
        s.name="Priya";
        s.age=22;
        s.roll=15;
        Console.WriteLine("Name is "+s.name);
        Console.WriteLine("age is "+s.age);
        Console.WriteLine("Roll is "+s.roll);
    }
}
```

Output:

```
C:\Users\Admin\Desktop>StudentTest
Name is Priya
age is 22
Roll is 15
```

BB
10/05/2022

Department of Computer Science

Write a program in c# demonstrate of try and catch mechanism for exception handling.

```
using System;
class Exception1
{
    public static void Main(string[] args)
    {
        Console.WriteLine("Enter Three Number:");
        int a=Convert.ToInt32(Console.ReadLine());
        int b=Convert.ToInt32(Console.ReadLine());
        int c=Convert.ToInt32(Console.ReadLine());
        int x,y;
        try
        {
            x = a/(b-c);
            Console.WriteLine("x="+x);
        }
        catch (Exception e)
        {
            Console.WriteLine(e);
        }
        y = a/(b+c);
        Console.WriteLine("y =" + y);
    }
}
```

Output:

```
csc Exception1.cs  
E:\abc>Exception1  
Enter Three Number:  
3  
2  
4  
x=-1  
y =0
```

E:\abc>Exception1
Enter Three Number:
1
2
2
System.DivideByZeroException: Attempted to divide by zero.
at Exception1.Main(String[] args)
y =0

Qhavan
21/5/2022

Department of Computer Science

Write a program in C# to demonstrate the different Exceptions.

using System;

class Exception1

{

public static void Main()

{

int[] a={5,10};

int b=5;

try

{

int x =a[2]/b-a[1];

}

catch(ArithmeticException e)

{

Console.WriteLine("Division by zero"+e);

}

catch(IndexOutOfRangeException e)

{

Console.WriteLine("Array Index error"+e);

}

catch(ArrayTypeMismatchException e)

{

Console.WriteLine("Wrong data type"+e);

}

int y=a[1]/a[0];

Console.WriteLine("y=" +y);

}

}

Output:

D:\44>Exception1

Array Index errorSystem.IndexOutOfRangeException: Index was outside the bounds of
the array.

at Exception1.Main()

y=2

Rishav
2022

WAP in c# to write user input into a file using a Stream Writer class.

```
using System;
using System.Text;
using System.IO;
class FileWriteEx
{
    class FileWrite
    {
        public void WriteData()
        {
            FileStream fs= new FileStream("c:\\test.txt", FileMode.Append, FileAccess.Write);
            StreamWriter sw = new StreamWriter(fs);
            Console.WriteLine("Enter the test which you want to write to the file");
            string str=Console.ReadLine();
            sw.WriteLine(str);
            sw.Flush();
            sw.Close();
            fs.Close();
        }
    }
    static void Main(string[] args)
    {
        FileWrite wr=new FileWrite();
        wr.WriteData();
    }
}
```

*****OUTPUT*****

D:\22>CSC FileWriteEx.cs

.D:\22>FileWriteEx

Enter the test which you want to write to the file

this is Priya Kadam

WAP In C# to read a file using a StreamReader class

```
using System;
using System.IO;
class Program1
{
    class FileRead
    {
        public void ReadData()
        {
            FileStream fs = new FileStream("c:\\test.txt", FileMode.Open, FileAccess.Read);
            StreamReader sr = new StreamReader(fs);
            Console.WriteLine("Program to show control to the files");
            sr.BaseStream.Seek(0, SeekOrigin.Begin);
            string str = sr.ReadLine();
            while(str != null)
            {
                Console.WriteLine(str);
                str = sr.ReadLine();
            }
            Console.ReadLine();
            sr.Close();
            fs.Close();
        }
    }
    static void Main(string[] args)
    {
        FileRead wr = new FileRead();
        wr.ReadData();
    }
}
```

OutPut

C:\Users\Admin\Desktop\Admin>Program1
Program to show control to the files
this is priya kadam

Phavan
7/2022

Department of Computer Science

Write a Program in c# to calculate Volume of a Cube, Cylinder and Box by using a method overloading.

```
using System;
class Overloading
{
    public static void Main()
    {
        Console.WriteLine("Enter the length of cube");
        int len1=Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Enter the Radius and hight of Cylinder");
        float r1=float.Parse(Console.ReadLine());
        int h1=Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Enter the lenght ,breadth and hight of Box");
        long len2=long.Parse(Console.ReadLine());
        int b2=Convert.ToInt32(Console.ReadLine());
        int h2=Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Volume of the Cube is :" + Volume(len1));
        Console.WriteLine("Volume of the Cylinder is :" + Volume(r1,h1));
        Console.WriteLine("Volume of the Box is :" + Volume(len2,b2,h2));
    }
    static int Volume(int x)
    {
        return(x*x*x);
    }
    static double Volume(float r,int h)
    {
        return(3.14*r*r*h);
    }
    static long Volume(long l,int b,int h)
    {
        return(l*b*h);
    }
}
```

Output:

E:\pri1>csc Overloading.cs

E:\pri1>Overloading

Enter the length of cube

22

Enter the Radious and hight of Cylinder

12

6

Enter the lenght ,breadth and hight of Box

14

10

8

Volume of the Cube is :10648

Volume of the Cylinder is :2712.96

Volume of the Box is :1120

Q9
02/03/2022