1. using System;

class Program

{

static void Main()

{

Console.WriteLine("Enter the length of the rectangle:");

double length = Convert.ToDouble(Console.ReadLine());

Console.WriteLine("Enter the width of the rectangle:");

double width = Convert.ToDouble(Console.ReadLine());

double area = CalculateRectangleArea(length, width);

Console.WriteLine($"The area of the rectangle is: {area}");

}

static double CalculateRectangleArea(double length, double width)

{

return length \* width;

}

}

2. using System;

class Program

{

static void Main()

{

for (int i = 1; i <= 10; i++)

{

Console.WriteLine($"Enter number {i}:");

int number = Convert.ToInt32(Console.ReadLine());

string result = IsEvenOrOdd(number);

Console.WriteLine($"Number {number} is {result}.");

}

}

static string IsEvenOrOdd(int number)

{

return (number % 2 == 0) ? "even" : "odd";

}

}

3. using System;

class Program

{

static void Main()

{

Console.WriteLine("Enter a positive integer:");

int userInput = Convert.ToInt32(Console.ReadLine());

if (userInput > 0)

{

int sum = CalculateSum(userInput);

Console.WriteLine($"The sum of numbers from 1 to {userInput} is: {sum}");

}

else

{

Console.WriteLine("ERROR: Please enter a positive integer.");

}

}

static int CalculateSum(int n)

{

return (n \* (n + 1)) / 2;

}

}

4. using System;

class Program

{

static void Main()

{

Console.WriteLine("Enter the value of N for Fibonacci series:");

int n = Convert.ToInt32(Console.ReadLine());

Console.WriteLine($"Fibonacci series of {n} terms:");

for (int i = 0; i < n; i++)

{

Console.Write($"{Fibonacci(i)} ");

}

}

static int Fibonacci(int n)

{

if (n <= 1)

return n;

else

return Fibonacci(n - 1) + Fibonacci(n - 2);

}

}

5. using System;

class Program

{

static void Main()

{

Console.WriteLine("Enter a number to display its multiplication table:");

int number = Convert.ToInt32(Console.ReadLine());

Console.WriteLine($"Multiplication table for {number}:");

for (int i = 1; i <= 10; i++)

{

Console.WriteLine($"{number} x {i} = {number \* i}");

}

}

}

6.

using System;

class Program

{

static void Main()

{

Console.WriteLine("Enter student's name:");

string studentName = Console.ReadLine();

Console.WriteLine("Enter exam marks:");

int examMarks = Convert.ToInt32(Console.ReadLine());

string grade = DetermineGrade(examMarks);

Console.WriteLine($"{studentName}'s grade is: {grade}");

}

static string DetermineGrade(int marks)

{

if (marks >= 75 && marks <= 100)

return "Grade A";

else if (marks >= 60 && marks <= 74)

return "Grade B";

else if (marks >= 50 && marks <= 59)

return "Grade C";

else if (marks >= 40 && marks <= 49)

return "Grade D";

else

return "Failed";

}

}