

1). using System;

class Program

```
{  
    static void Main()  
    {  
        Console.Write("Enter the length: ");  
        double length = Convert.ToDouble(Console.ReadLine());  
  
        Console.Write("Enter the width: ");  
        double width = Convert.ToDouble(Console.ReadLine());  
  
        double area = CalculateArea(length, width);  
  
        Console.WriteLine($"The area of the rectangle is: {area}");  
    }  
  
    static double CalculateArea(double length, double width)  
    {  
        return length * width;  
    }  
}
```

2).using System;

class Program

```
{  
    static void Main()  
    {  
        for (int i = 0; i < 10; i++)
```

```

    {
        Console.Write($"Enter number #{i + 1}: ");

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

        Console.WriteLine($"{number} is {(number % 2 == 0 ? "even" : "odd")}");
    }
}
3). using System;

```

```

class Program
{
    static void Main()
    {
        Console.Write("Enter a positive integer: ");
        int n = Convert.ToInt32(Console.ReadLine());

        if (n < 0)
        {
            Console.WriteLine("ERROR");
        }
        else
        {
            int sum = 0;
            for (int i = 1; i <= n; i++)
            {
                sum += i;
            }
        }
    }
}

```

```
        Console.WriteLine($"The sum of numbers from 1 to {n} is: {sum}");
    }
}
4).using System;
```

```
class Program
{
    static void Main()
    {
        Console.Write("Enter a positive integer (N): ");
        int n = Convert.ToInt32(Console.ReadLine());

        if (n < 0)
        {
            Console.WriteLine("ERROR");
        }
        else
        {
            int sum = SumRecursively(n);

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

    static int SumRecursively(int n)
    {
        if (n == 0)
            return 0;
```

```

        else
            return n + SumRecursively(n - 1);
    }
}

```

5).using System;

```

class Program
{
    static void Main()
    {
        Console.Write("Enter a number: ");
        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.Write("Enter student's name: ");
    }
}

```

```

string name = Console.ReadLine();

Console.Write("Enter exam marks: ");
int marks = Convert.ToInt32(Console.ReadLine());

char grade = DetermineGrade(marks);

Console.WriteLine($"{name} scored {marks} marks. Grade: {grade}");
}

static char DetermineGrade(int marks)
{
    if (marks >= 75 && marks <= 100)
        return 'A';
    else
        return 'F'; // You might want to extend this with more grading criteria
}
}
using System;

class Program
{
    static double balance = 1000; // Initial balance

    static void Main()
    {
        while (true)
        {
            Console.WriteLine("\nATM Menu:");

```

```
Console.WriteLine("1. Check Balance");
Console.WriteLine("2. Deposit Money");
Console.WriteLine("3. Withdraw Money");
Console.WriteLine("4. Exit");

Console.Write("Enter your choice (1-4): ");
string choice = Console.ReadLine();

switch (choice)
{
    case "1":
        CheckBalance();
        break;
    case "2":
        Deposit();
        break;
    case "3":
        Withdraw();
        break;
    case "4":
        Console.WriteLine("Exiting the ATM. Thank you!");
        return;
    default:
        Console.WriteLine("Invalid choice. Please enter a number between 1 and 4.");
        break;
}
}
```

```
static void CheckBalance()
{
    Console.WriteLine($"Your balance is: ${balance}");
}
```

```
static void Deposit()
{
    Console.Write("Enter the amount to deposit: $");
    if (double.TryParse(Console.ReadLine(), out double amount) && amount > 0)
    {
        balance += amount;
        Console.WriteLine($"Deposited ${amount}. New balance is: ${balance}");
    }
    else
    {
        Console.WriteLine("Invalid amount. Please enter a positive number.");
    }
}
```

```
static void Withdraw()
{
    Console.Write("Enter the amount to withdraw: $");
    if (double.TryParse(Console.ReadLine(), out double amount) && amount > 0)
    {
        if (amount <= balance)
        {
            balance -= amount;
            Console.WriteLine($"Withdrew ${amount}. New balance is: ${balance}");
        }
    }
}
```

```
    else
    {
        Console.WriteLine("Insufficient funds. Withdrawal failed.");
    }
}
else
{
    Console.WriteLine("Invalid amount. Please enter a positive number.");
}
}
```