

# LAB 01

27295

01. using System;

```
namespace NameAndBatchConsoleApp
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter your
name:");
            string name = Console.ReadLine();

            Console.WriteLine("Enter your
batch:");
            string batch = Console.ReadLine();

            Console.WriteLine("\nYou entered:");
            Console.WriteLine("Name: " +
name);
```

```
        Console.WriteLine("Batch: " + batch);

        Console.ReadKey();
    }
}
}
```

02.using System;

```
namespace CircleAreaConsoleApp
{
```

```
    class Program
```

```
    {
```

```
        static void Main(string[] args)
```

```
        {
```

```
            Console.WriteLine("Enter the radius  
of the circle:");
```

```
            string radiusInput =  
Console.ReadLine();
```

```
// Parse the input string to a double
if (double.TryParse(radiusInput, out
double radius))
{
    // Check if the radius is non-
negative
    if (radius >= 0)
    {
        // Calculate the area of the
circle using the formula:  $\text{Area} = \pi * r^2$ 
        double area = Math.PI *
Math.Pow(radius, 2);

        Console.WriteLine("The area of
the circle with radius " + radius + " is: " +
area);
    }
    else
    {
        Console.WriteLine("Invalid
input. The radius must be a non-negative
```

```
number.");  
        }  
    }  
    else  
    {  
        Console.WriteLine("Invalid input.  
Please enter a valid numeric value for the  
radius.");  
    }  
  
    Console.ReadKey();  
}  
}  
}
```

```
03.using System;
```

```
namespace SummationConsoleApp  
{  
    class Program
```

```
{
    static void Main(string[] args)
    {
        Console.WriteLine("Enter the first
number:");
        string input1 = Console.ReadLine();

        Console.WriteLine("Enter the
second number:");
        string input2 = Console.ReadLine();

        // Parse the input strings to doubles
        if (double.TryParse(input1, out
double number1) &&
double.TryParse(input2, out double
number2))
        {
            double sum = number1 +
number2;

            Console.WriteLine("The sum of "
+ number1 + " and " + number2 + " is: " +
```

```
sum);
    }
    else
    {
        Console.WriteLine("Invalid input.
Please enter valid numeric values.");
    }

    Console.ReadKey();
}
}
```

04.using System;

```
namespace SalaryAfterTaxConsoleApp
{
    class Program
    {
        static void Main(string[] args)
        {
```

```
        Console.WriteLine("Enter the salary  
of the employee:");  
        string salaryInput =  
Console.ReadLine();
```

```
        Console.WriteLine("Enter the tax  
rate (in decimal form, e.g., 0.2 for 20% tax  
rate):");  
        string taxRateInput =  
Console.ReadLine();
```

```
        // Parse the input strings to doubles  
        if (double.TryParse(salaryInput, out  
double salary) &&  
double.TryParse(taxRateInput, out double  
taxRate))  
        {  
            // Check if the salary and tax rate  
are non-negative  
            if (salary >= 0 && taxRate >= 0 &&  
taxRate <= 1)
```

```
{
    // Calculate the salary after tax
    double salaryAfterTax = salary
* (1 - taxRate);

    Console.WriteLine("Salary after
tax: " + salaryAfterTax);
}
else
{
    Console.WriteLine("Invalid
input. Both the salary and tax rate must be
non-negative numbers.");
}
}
else
{
    Console.WriteLine("Invalid input.
Please enter valid numeric values for
salary and tax rate.");
}
```



```
Console.ReadKey();
```

```
}
```

```
}
```

```
}
```