

LAB 01

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();
```

```
}
```

```
}
```

```
}
```