Lab-01

01)

using System;

namespace NameAndBatchConsoleApp

{

class Program

{

static void Main(string[] args)

{

Console.Write("Enter your name: ");

string name = Console.ReadLine();

Console.Write("Enter your batch: ");

string batch = Console.ReadLine();

Console.WriteLine($"Your name is: {name}");

Console.WriteLine($"Your batch is: {batch}");

Console.ReadKey();

}

}

}

02)

using System;

namespace CircleAreaCalculator

{

class Program

{

static void Main(string[] args)

{

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

string radiusInput = Console.ReadLine();

if (double.TryParse(radiusInput, out double radius))

{

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. Please enter a valid number for the radius.");

}

Console.ReadKey();

}

}

}

03)

using System;

namespace SummationCalculator

{

class Program

{

static void Main(string[] args)

{

Console.Write("Enter the first number: ");

string num1Input = Console.ReadLine();

Console.Write("Enter the second number: ");

string num2Input = Console.ReadLine();

if (double.TryParse(num1Input, out double num1) && double.TryParse(num2Input, out double num2))

{

double sum = num1 + num2;

Console.WriteLine($"The summation of {num1} and {num2} is: {sum}");

}

else

{

Console.WriteLine("Invalid input. Please enter valid numbers for both inputs.");

}

Console.ReadKey();

}

}

}

04)

using System;

namespace SalaryCalculator

{

class Program

{

static void Main(string[] args)

{

Console.Write("Enter the employee's salary: ");

string salaryInput = Console.ReadLine();

Console.Write("Enter the tax rate (in percentage): ");

string taxRateInput = Console.ReadLine();

if (double.TryParse(salaryInput, out double salary) && double.TryParse(taxRateInput, out double taxRate))

{

double taxAmount = (salary \* taxRate) / 100;

double salaryAfterTax = salary - taxAmount;

Console.WriteLine($"Salary after tax deduction: {salaryAfterTax}");

Console.WriteLine($"Tax amount: {taxAmount}");

}

else

{

Console.WriteLine("Invalid input. Please enter valid numbers for both salary and tax rate.");

}

Console.ReadKey();

}

}

}