**TUTORIAL 01**

1. Create a Console application that can read your name and batch as an input and print them into the console.

namespace NameAndBatchConsoleApp

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Please enter your name:");

string name = Console.ReadLine();

Console.WriteLine("Please enter your batch:");

string batch = Console.ReadLine();

Console.WriteLine("Your name is: " + name);

Console.WriteLine("Your batch is: " + batch);

Console.ReadLine(); // To prevent the console from closing immediately

}

}

}

1. Create a Console application that can read the radius from the user and calculate the Area of a circle.

static void Main(string[] args)

{

Console.WriteLine("Please enter the radius of the circle:");

string radiusInput = Console.ReadLine();

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

{

double area = CalculateCircleArea(radius);

Console.WriteLine("The area of the circle is: " + area);

}

else

{

Console.WriteLine("Invalid input. Please enter a valid number for the radius.");

}

Console.ReadLine(); // To prevent the console from closing immediately

}

static double CalculateCircleArea(double radius)

{

return Math.PI \* Math.Pow(radius, 2);

}

}

}

3. Create a console application that can read two input values and show the summation of the inputs.

using System;

namespace SummationCalculator

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Please enter the first number:");

string input1 = Console.ReadLine();

Console.WriteLine("Please enter the second number:");

string input2 = Console.ReadLine();

if (double.TryParse(input1, out double num1) && double.TryParse(input2, out double num2))

{

double sum = num1 + num2;

Console.WriteLine("The summation of the inputs is: " + sum);

}

else

{

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

}

Console.ReadLine(); // To prevent the console from closing immediately

}

}

}

4. Create a console application that can read salary of an employee and tax rate. Then show salary after the tax.

using System;

namespace SalaryCalculator

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Please enter the salary of the employee:");

string salaryInput = Console.ReadLine();

Console.WriteLine("Please enter the tax rate (in decimal format, e.g., 0.2 for 20%):");

string taxRateInput = Console.ReadLine();

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

{

double salaryAfterTax = CalculateSalaryAfterTax(salary, taxRate);

Console.WriteLine("Salary after tax: " + salaryAfterTax);

}

else

{

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

}

Console.ReadLine(); // To prevent the console from closing immediately

}

static double CalculateSalaryAfterTax(double salary, double taxRate)

{

return salary \* (1 - taxRate);

}

}

}