**LAB 1**

**Question 1**

using System;

class Program

{

static void Main()

{

Console.WriteLine("Welcome to the Console Application!");

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

string name = Console.ReadLine();

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

string batch = Console.ReadLine();

Console.WriteLine("\nName: " + name);

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

Console.WriteLine("\nPress any key to exit.");

Console.ReadKey();

    }

}

**Question 2**

using System;

class Program

{

static void Main()

{

Console.WriteLine("Welcome to the Circle Area Calculator!");

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 is: " + area.ToString("0.00"));

}

else

{

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

}

Console.WriteLine("\nPress any key to exit.");

Console.ReadKey();

    }

}

**Question 3**

using System;

class Program

{

static void Main()

{

Console.WriteLine("Welcome to the Summation Calculator!");

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

string firstNumberInput = Console.ReadLine();

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

string secondNumberInput = Console.ReadLine();

if (double.TryParse(firstNumberInput, out double firstNumber) && double.TryParse(secondNumberInput, out double secondNumber))

{

double sum = firstNumber + secondNumber;

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

}

else

{

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

}

Console.WriteLine("\nPress any key to exit.");

Console.ReadKey();

    }

}

**Question 4**

using System;

class Program

{

static void Main()

{

Console.WriteLine("Welcome to the Salary Calculator!");

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

string salaryInput = Console.ReadLine();

Console.Write("Enter the tax rate (in decimal form, e.g., 0.15 for 15%): ");

string taxRateInput = Console.ReadLine();

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

{

double taxAmount = salary \* taxRate;

double salaryAfterTax = salary - taxAmount;

Console.WriteLine("Salary after tax deduction: " + salaryAfterTax.ToString("0.00"));

}

else

{

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

}

Console.WriteLine("\nPress any key to exit.");

Console.ReadKey();

    }

}