***Practical 02***

Task 01:

class ConvertValues

{

public void kilometerToMeter()

{

Console.WriteLine("Enter the distance in Kilometers (Km):");

double kilometers = double.Parse(Console.ReadLine());

double meters = kilometers \* 1000;

Console.WriteLine($"The distance in Meters (m) is: {meters} m");

}

}

static void Main(string[] args)

{

ConvertValues converter = new ConvertValues();

converter.kilometerToMeter();

}

Task 02:

class ConvertValues

{

public void KilometerToMeter(double kilometers)

{

double meters = kilometers \* 1000;

Console.WriteLine($"The distance in Meters (m) is: {meters} m");

}

}

static void Main(string[] args)

{

Console.WriteLine("Enter the distance in Kilometers (Km):");

double kilometers = double.Parse(Console.ReadLine());

ConvertValues converter = new ConvertValues();

converter.KilometerToMeter(kilometers);

}

Task 03:

class ConvertValues

{

public double KilometerToMeter(double kilometers)

{

double meters = kilometers \* 1000;

return meters;

}

}

static void Main(string[] args)

{

Console.WriteLine("Enter the distance in Kilometers (Km):");

double kilometers = double.Parse(Console.ReadLine());

ConvertValues converter = new ConvertValues();

double meters = converter.KilometerToMeter(kilometers);

Console.WriteLine($"The distance in Meters (m) is: {meters} m");

}

class FindValues

{

public double FindArea(double radius)

{

return Math.PI \* radius \* radius;

}

public double FindCircumference(double radius)

{

return 2 \* Math.PI \* radius;

}

}

static void Main(string[] args)

{

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

double radius = double.Parse(Console.ReadLine());

FindValues circleFinder = new FindValues();

double area = circleFinder.FindArea(radius);

double circumference = circleFinder.FindCircumference(radius);

Console.WriteLine($"Area of the circle: {area}");

Console.WriteLine($"Circumference of the circle: {circumference}");

}

class CalculateValues

{

public double Addition(double num1, double num2)

{

return num1 + num2;

}

public double Subtraction(double num1, double num2)

{

return num1 - num2;

}

public double Multiplication(double num1, double num2)

{

return num1 \* num2;

}

public double Division(double num1, double num2)

{

if (num2 == 0)

{

Console.WriteLine("Cannot divide by zero.");

return 0;

}

return num1 / num2;

}

static void Main(string[] args)

{

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

double num1 = double.Parse(Console.ReadLine());

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

double num2 = double.Parse(Console.ReadLine());

Console.WriteLine("Choose an operation:");

Console.WriteLine("1 - Addition");

Console.WriteLine("2 - Subtraction");

Console.WriteLine("3 - Multiplication");

Console.WriteLine("4 - Division");

int choice = int.Parse(Console.ReadLine());

CalculateValues calculator = new CalculateValues();

double result = 0;

switch (choice)

{

case 1:

result = calculator.Addition(num1, num2);

break;

case 2:

result = calculator.Subtraction(num1, num2);

break;

case 3:

result = calculator.Multiplication(num1, num2);

break;

case 4:

result = calculator.Division(num1, num2);

break;

default:

Console.WriteLine("Invalid choice.");

break;

}

Console.WriteLine($"Result: {result}");

}