**Question 01.**

**1. Create a C# Console application to convert user given Kilo Meter (km) Value to Meter (m) value. Take a separate Class call “ConvertValues” and inside the class create a method call kilometerTOmeter. (No return type No Parameter Method). And display the**

**answer within the method. Then create an object in main Class (program class) and call the method.**

{

public class ConvertValues

{

public void KilometerToMeter()

{

Console.WriteLine("Enter the distance in kilometers (km):");

string input = Console.ReadLine();

if (double.TryParse(input, out double kilometers))

{

double meters = kilometers \* 1000;

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

}

else

{

Console.WriteLine("Invalid input. Please enter a valid numeric value for kilometers.");

}

}

}

class Program

{

static void Main(string[] args)

{

ConvertValues converter = new ConvertValues();

converter.KilometerToMeter();

Console.ReadLine(); // This will pause the program until you press Enter key

}

}

}

**2. Modify the same user defined method to method which accepts a parameter value. That parameter value is the user given Km value. (No return type with parameter method). Display the answer by using the class object.**

{

public class ConvertValues

{

public void KilometerToMeter(double kilometers)

{

double meters = kilometers \* 1000;

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

}

}

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter the distance in kilometers (km):");

string input = Console.ReadLine();

if (double.TryParse(input, out double kilometers))

{

ConvertValues converter = new ConvertValues();

converter.KilometerToMeter(kilometers);

}

else

{

Console.WriteLine("Invalid input. Please enter a valid numeric value for kilometers.");

}

Console.ReadLine(); // This will pause the program until you press Enter key

}

}

}

**3. Modify the same user defined method to method which accept a parameter and returns the answer at the end of the method. You should return the calculated Meter value at the end of the method. (With return type with parameter method). Display the answer by using object.**

public class ConvertValues

{

public double KilometerToMeter(double kilometers)

{

return kilometers \* 1000;

}

}

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter the distance in kilometers (km):");

string input = Console.ReadLine();

if (double.TryParse(input, out double kilometers))

{

ConvertValues converter = new ConvertValues();

double meters = converter.KilometerToMeter(kilometers);

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

}

else

{

Console.WriteLine("Invalid input. Please enter a valid numeric value for kilometers.");

}

Console.ReadLine(); // This will pause the program until you press Enter key

}

}

}

**Question 02.**

**• Create a C# Console application to find the area and the circumference of a circle.**

**• User should insert the radius value to the program. Program should contain a separate class call “FindValues” inside the separate class add two methods call findArea and findCircumference Both these methods are methods which takes parameters. As the parameter you should pass the radius value. By using above two methods find the area and circumference of the circle and return the answer from both methods. Create a class object in main class and call both methods and display the answers.**

using System;

namespace CircleCalculator

{

public class FindValues

{

public double FindArea(double radius)

{

return Math.PI \* radius \* radius;

}

public double FindCircumference(double radius)

{

return 2 \* Math.PI \* radius;

}

}

class Program

{

static void Main(string[] args)

{

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

string input = Console.ReadLine();

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

{

FindValues calculator = new FindValues();

double area = calculator.FindArea(radius);

double circumference = calculator.FindCircumference(radius);

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

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

}

else

{

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

}

Console.ReadLine(); // This will pause the program until you press Enter key

}

}

}