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**C# Lab 04.**

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.

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.

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.

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.

**Answers**

Question 01.

1.

using System;

namespace ConvertValues

{

class ConvertValues

{

static void kilometerTOmeter()

{

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

double meter = kilometer \* 1000;

Console.WriteLine("The equivalent meter value is {0}", meter);

}

}

class Program

{

static void Main(string[] args)

{

ConvertValues convertValues = new ConvertValues();

convertValues.kilometerTOmeter();

}

}

}

2.

using System;

namespace ConvertValues

{

class ConvertValues

{

static void kilometerTOmeter(double kilometer)

{

double meter = kilometer \* 1000;

Console.WriteLine("The equivalent meter value is {0}", meter);

}

}

class Program

{

static void Main(string[] args)

{

ConvertValues convertValues = new ConvertValues();

convertValues.kilometerTOmeter(10);

}

}

}

3.

using System;

namespace ConvertValues

{

class ConvertValues

{

static double kilometerTOmeter(double kilometer)

{

double meter = kilometer \* 1000;

return meter;

}

}

class Program

{

static void Main(string[] args)

{

ConvertValues convertValues = new ConvertValues();

double meter = convertValues.kilometerTOmeter(10);

Console.WriteLine("The equivalent meter value is {0}", meter);

}

}

}

Question 02.

•

using System;

namespace CircleAreaCircumference

{

class Program

{

static void Main(string[] args)

{

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

double area = Math.PI \* radius \* radius;

double circumference = 2 \* Math.PI \* radius;

Console.WriteLine("The area of the circle is {0}", area);

Console.WriteLine("The circumference of the circle is {0}", circumference);

}

}

}

•

using System;

namespace FindValues

{

class FindValues

{

static double findArea(double radius)

{

double area = Math.PI \* radius \* radius;

return area;

}

static double findCircumference(double radius)

{

double circumference = 2 \* Math.PI \* radius;

return circumference;

}

}

class Program

{

static void Main(string[] args)

{

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

FindValues findValues = new FindValues();

double area = findValues.findArea(radius);

double circumference = findValues.findCircumference(radius);

Console.WriteLine("The area of the circle is {0}", area);

Console.WriteLine("The circumference of the circle is {0}", circumference);

}

}

}