Step 1:- INTRO

CODE:-

using System;

using System.Collections.Generic;

using System.Linq;

namespace myApp

{

class Program

{

static void Main()

{

Console.WriteLine("Hello World!");

}

}

}

OUTPUT:-

CONSOLE

**Hello World!**

STEP2:- STRINGS

CODE

using System;

using System.Collections.Generic;

using System.Linq;

namespace myApp

{

class Program

{

static void Main()

{

Console.WriteLine("Hello SATHVIK!");

}

}

}

OUTPUT:- Hello SATHVIK!

STEP3:- VARIABLES

CODE:-

using System;

using System.Collections.Generic;

using System.Linq;

namespace myApp

{

class Program

{

static void Main()

{

var name = "SATHVIK";

Console.WriteLine("Hello " + name + "!");

}

}

}

OUTPUT:- Hello SATHVIK!

STEP 4:- STRING INTERPOLATION

CODE:-

using System;

using System.Collections.Generic;

using System.Linq;

namespace myApp

{

class Program

{

static void Main()

{

var name = "SATHVIK";

Console.WriteLine($"Hello {name}!");

}

}

}

OUTPUT:-

Hello SATHVIK!

STEP5:- METHODS

CODE

using System;

using System.Collections.Generic;

using System.Linq;

namespace myApp

{

class Program

{

static void Main()

{

var name = "SATHVIK";

Console.WriteLine($"Hello {name.ToUpper()}!");

}

}

}

OUTPUT

Hello SATHVIK!

STEP6:- COLLECTION

CODE:-

using System;

using System.Collections.Generic;

using System.Linq;

namespace myApp

{

class Program

{

static void Main()

{

var names = new List<string> { "SATHVIK", "Felipe", "Emillia" };

foreach (var name in names)

{

Console.WriteLine($"Hello {name.ToUpper()}!");

}

}

}

}

OUTPUT:-

Hello SATHVIK!  
Hello FELIPE!  
Hello EMILLIA!

EXPLORE INTEGER MATH

CODE:-

int a = 18;

int b = 6;

int c = a + b;

int d = a - b;

int e = a \* b;

int f = a % b;

Console.WriteLine(c);

Console.WriteLine(d);

Console.WriteLine(e);

Console.WriteLine(f);

OUTPUT:-

24

12

108

0

EXPLORE ORDER OF OPERATIONS

CODE:- int a = 5;

int b = 4;

int c = 2;

int d = a + b \* c;

int e = (a + b) \* c;

int f = (a + b) / c;

int g = (a + b) - 6 \* c + (12 \* 4) / 3 + 12;

Console.WriteLine(f);

Console.WriteLine(d);

Console.WriteLine(e);

Console.WriteLine(g);

OUTPUT:-

4

13

18

25

EXPLORE INTEGER PERCISION

CODE:- int a = 7;

int b = 4;

int c = 3;

int d = (a + b) / c;

int e = (a + b) % c;

Console.WriteLine($"quotient: {d}");

Console.WriteLine($"remainder: {e}");

OUTPUT:-

quotient: 3

remainder: 2

WORK WITH DOUBLE TYPE

CODE:-

double a = 5;

double b = 4;

double c = 2;

double d = (a + b) / c;

Console.WriteLine(d);

double third = 1.0 / 3.0;

Console.WriteLine(third);

OUTPUT:-

4.5

0.333333333333333

WORK WITH DECIMAL TYPES

CODE:-

double a = 1.0;

double b = 3.0;

Console.WriteLine(a / b);

decimal c = 1.0M;

decimal d = 3.0M;

Console.WriteLine(c / d);

OUTPUT:-

0.333333333333333

0.3333333333333333333333333333

COMPLETE CHALLENGE

CODE:- double radius = 2.50;

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

Console.WriteLine(area);

OUTPUT:-

19.6349540849362