1.Usage of out keyword

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp39

{

internal class Programs

{

long findSumExtended(long a, long b, out long diff, out long prod,

out long quotient, out long remaninder)

{

//long x = diff + prod;//ERR, using out arg before updating to 'out' arg throws ERR

long sum = a + b;

diff = a - b;

prod = a \* b;

quotient = a / b;

remaninder = a % b; //All out args should be updated before returning from the fn

//long x = diff + prod;//No ERR, using out arg after updating to 'out' arg is VALID

return sum;

}

static void Main(string[] args)

{

Programs programs = new Programs();

long s, d = 10, p = 20, q = 30, r = 40;

s = programs.findSumExtended(20, 3, out d, out p, out q, out r);

Console.WriteLine($"sum={s}, diff={d}, prod={p}, quotient={q}, remaninder={r}");

//23, 17, 60, 6, 2

}

}

}

2.Usage of ref keyword

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp39

{

internal class Programs

{

void swap(ref long a,ref long b)

{

long t = a;

a = b;

b = t;

}

static void Main(string[] args)

{

Programs programs = new Programs();

long x = 10, y = 20;

Console.WriteLine("before swapping........");

Console.WriteLine($"x ={x},y ={y}");

Console.WriteLine("after swapping........");

programs.swap(ref x,ref y);

Console.WriteLine($"x ={ x},y ={ y}");

}

}

}

3.Use of params

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp36

{

using System;

class Program

{

static void SumOfNos(params int[] numbers)\\only one params arg used,params should be placed last,overloadable

{

int sum = 0;

foreach (int number in numbers)

{

sum = sum + number;

}

Console.WriteLine(sum);

}

static void Main()

{

Console.Write("sum of 3 nos: ");

SumOfNos(1,2,3);

Console.Write("sum of 2 nos: ");

SumOfNos(5,10);

Console.Write("sum of 10 nos: ");

SumOfNos(1,2,3,4,5,6,7,8,9,10);

}

}

}