SWITCH WITH RANGE

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Program

{

static void Main(string[] args)

{

int per;

Console.WriteLine("Enter the percentage " );

per = Convert.ToInt32(Console.ReadLine());

switch((per>35)?"PASS":"FAIL")

{

case "PASS": Console.WriteLine("PASSED"); break;

case "FAIL": Console.WriteLine("FAILED"); break;

default: Console.WriteLine("Invalid percent");break;

}

}

}

}

SWITCH WITH RANGE -2

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Program

{

static void Main(string[] args)

{

int per;

Console.WriteLine("Enter the percentage " );

per = Convert.ToInt32(Console.ReadLine());

switch((per>70)?"DIST":(per>50)?"FIRST":(per>35)?"PASS":"FAIL")

{

case "DIST": Console.WriteLine("DISTINCTION"); break;

case "FIRST": Console.WriteLine("FIRST CLASS"); break;

case "PASS": Console.WriteLine("PASSED"); break;

case "FAIL": Console.WriteLine("FAILED"); break;

default: Console.WriteLine("Invalid percent");break;

}

}

}

}

2D ARRAY PASSING WITH FUNCTIONS

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Twodarray1

{

static void input(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

for(int i=0;i<rows;i++)

{

Console.WriteLine("Enter the elements of {0}th row ",i );

for(int j=0;j<cols;j++)

{

a[i, j] = Convert.ToInt32(Console.ReadLine());

}

}

}

static void printArray(int[,] a)

{

Console.WriteLine("Total num of elements " + a.Length);

int rows = a.GetLength(0);

int cols = a.GetLength(1);

for (int i = 0; i < rows; i++)

{

for (int j = 0; j < cols; j++)

{

Console.Write(a[i, j] + "\t");

}

Console.WriteLine();

}

}

static void Main(string[] args)

{

int rows, cols;

Console.Write("Enter no of rows = ");

rows = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter no of cols = ");

cols = Convert.ToInt32(Console.ReadLine());

int[,] a = new int[rows, cols];

input(a);

printArray(a);

}

}

}

2D ARRAY WITH FUNCTIONS:SUM OF ROWS,COLS,DIGONAL

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Twodarray1

{

static void input(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

for(int i=0;i<rows;i++)

{

Console.WriteLine("Enter the elements of {0}th row ",i );

for(int j=0;j<cols;j++)

{

a[i, j] = Convert.ToInt32(Console.ReadLine());

}

}

}

static void printArray(int[,] a)

{

Console.WriteLine("Total num of elements " + a.Length);

int rows = a.GetLength(0);

int cols = a.GetLength(1);

for (int i = 0; i < rows; i++)

{

for (int j = 0; j < cols; j++)

{

Console.Write(a[i, j] + "\t");

}

Console.WriteLine();

}

}

static void rowsum(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

int sum = 0;

for (int i = 0; i < rows; i++)

{

sum = 0;

for (int j = 0; j < cols; j++)

{

sum += a[i, j];

}

Console.WriteLine("sum of {0} row = {1}",i,sum);

}

}

static void colsum(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

int sum = 0;

for (int j = 0; j < cols; j++)

{

sum = 0;

for (int i = 0; i < rows; i++)

{

sum += a[i, j];

}

Console.WriteLine("sum of {0} col = {1}", j, sum);

}

}

static void sumdiagonal(int[,] a)

{

int rows = a.GetLength(0);

int cols = a.GetLength(1);

int sum = 0;

for (int i = 0; i < rows; i++)

{

sum += a[i, i];

}

Console.WriteLine("the diagonal element sum = "+sum);

}

static void Main(string[] args)

{

int rows, cols;

Console.Write("Enter no of rows = ");

rows = Convert.ToInt32(Console.ReadLine());

Console.Write("Enter no of cols = ");

cols = Convert.ToInt32(Console.ReadLine());

int[,] a = new int[rows, cols];

input(a);

printArray(a);

Console.WriteLine("SUM OF ROWS\n");

rowsum(a);

Console.WriteLine("\nSUM OF COLS\n");

colsum(a);

if (rows == cols)

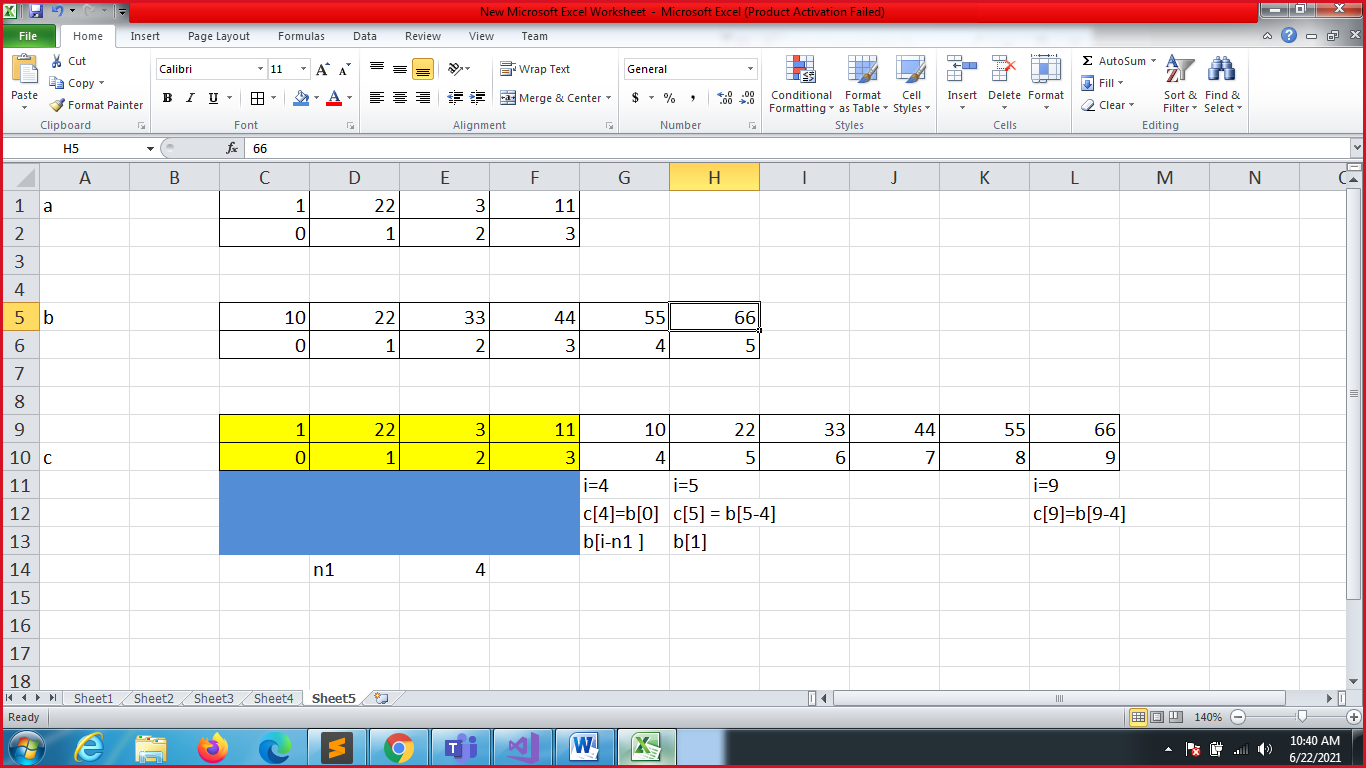
sumdiagonal(a);

}

}

}

2D CONCAT 2 ARRAYS



using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class ConcatArray

{

static void input(int[] a)

{

int n = a.Length;

for(int i=0;i<n;i++)

a[i] = Convert.ToInt32(Console.ReadLine());

}

static void Main(string[] args)

{

int n1, n2, n;

Console.WriteLine("Enter the no of elements of array 1");

n1 = Convert.ToInt32(Console.ReadLine());

int[] a = new int[n1];

Console.WriteLine("Enter the no of elements of array 2");

n2 = Convert.ToInt32(Console.ReadLine());

int[] b = new int[n2];

Console.WriteLine("\n enter the elements of array 1");

input(a);

Console.WriteLine("\n enter the elements of array 2");

input(b);

//create third array with length = n1+n2

int[] c = new int[n1 + n2];

for (int i = 0; i < n1 + n2; i++)

c[i] = (i<n1) ? a[i] : b[i-n1] ;

Console.WriteLine("\n the elements of array 3");

for (int i = 0; i < n1 + n2; i++)

Console.WriteLine(c[i]);

}

}

}

MATCHINGELEMENTS

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class MatchingElements

{

static void Main(string[] args)

{

int[] a = { 1, 2, 3, 4, 5 };

int[] b = { 2, 3, 4, 8, 9 };

var intersect = a.Intersect(b);

int[] x = intersect.ToArray();

Console.WriteLine(intersect);

foreach(int v in x)

Console.WriteLine(v);

/\*

int[] a = { 1, 2, 3, 4, 5 };

int[] b = { 2, 3, 4, 8, 9, 55, 6 };

Console.WriteLine("Common elements = ");

for (int i = 0; i < a.Length; i++)

{

for (int j = 0; j < b.Length; j++)

{

if (a[i] == b[j])

Console.WriteLine(a[i]);

}

}

\*/

}

}

}

UNIQUEARRAY

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class UniqueArray

{

static void Main(string[] args)

{

int[] a = { 1, 2, 3, 2, 1, 4, 5, 6, 5, 8 };

int i, j;

for(i=0; i<a.Length;i++)

{

for(j=0;j<i;j++)

{

if (a[i] == a[j])

break;

}

if(i==j)

Console.WriteLine(a[i]);

}

}

}

}

UNIQUEARRAY : NONDUPLICATEELEMENTS

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Nonduplicateelements

{

static void Main(string[] args)

{

int[] a = { 11, 22, 3, 44, 5, 22, 44, 77 };

int cnt;

for(int i=0;i<a.Length;i++)

{

cnt = 0;

for(int j=0;j<a.Length;j++)

{

if(a[i] == a[j])

{

cnt++;

if (cnt > 1)

break;

}

}

if(cnt==1)

Console.WriteLine(a[i]);

}

}

}

}

CLASSES & OBJECTS

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class Program

{

static void Main(string[] args)

{

int per;

Console.WriteLine("Enter the percentage " );

per = Convert.ToInt32(Console.ReadLine());

switch((per>70)?"DIST":(per>50)?"FIRST":(per>35)?"PASS":"FAIL")

{

case "DIST": Console.WriteLine("DISTINCTION"); break;

case "FIRST": Console.WriteLine("FIRST CLASS"); break;

case "PASS": Console.WriteLine("PASSED"); break;

case "FAIL": Console.WriteLine("FAILED"); break;

default: Console.WriteLine("Invalid percent");break;

}

}

}

}

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Day21

{

class ProductOperations

{

static void Main(string[] args)

{

Products ob = new Products();

ob.getdata();

ob.printrecord();

}

}

}