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**Year and Section: BSCS 3-B**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace HashSet\_LinkedList\_Dictionary

{

class Program

{

static void Main(string[] args)

{

HashSet<int> listerU = new HashSet<int>();

HashSet<int> listerU1 = new HashSet<int>();

HashSet<int> listerI = new HashSet<int>();

HashSet<int> listerI1 = new HashSet<int>();

HashSet<int> listerS = new HashSet<int>();

HashSet<int> listerS1 = new HashSet<int>();

Console.WriteLine("HashSet Set: 1");

for (int i=0; i<5; i++)

{

Console.Write("Enter a number {0}: ", i);

int num = Convert.ToInt32(Console.ReadLine());

listerU.Add(num);

listerI.Add(num);

listerS.Add(num);

}

Console.WriteLine("\nHashSet Set: 2");

for (int i = 0; i < 5; i++)

{

Console.Write("Enter a number {0}: ", i);

int num = Convert.ToInt32(Console.ReadLine());

listerU1.Add(num);

listerI1.Add(num);

listerS1.Add(num);

}

listerU.UnionWith(listerU1);

Console.Write("\nUnion : ");

foreach (var i in listerU)

{

Console.Write(" " + i);

}

listerI.IntersectWith(listerI1);

Console.Write("\nIntersection : ");

foreach (var i in listerI)

{

Console.Write(" " + i); ;

}

listerS.ExceptWith(listerS1);

Console.Write("\nSet difference : ");

foreach (var i in listerS)

{

Console.Write(" " + i);

}

Console.ReadKey();

}

}

}

