using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Assignment

{

    class Program

    {

        public delegate void StudentDetails<L>(L inpi);

        private static string name;

        private  static int id;

        private string studtAddress;

        public string getAddress()

        {

            return studtAddress;

        }

        public void setAddress(string SAddress)

        {

            studtAddress = SAddress;

        }

        public static void getStudentName(string Nname)

        {

            name = Nname;

            Console.WriteLine("Name: " + Nname);

        }

        public static void getStudentId(int Id)

        {

            id = Id;

            Console.WriteLine("ID:" + Id);

        }

        public   void storeDic()

        {

            Dictionary<int, string> d = new Dictionary<int, string>();

            d.Add(1, id.ToString());

            d.Add(2, name);

            d.Add(3, studtAddress);

            Console.WriteLine("\n");

            foreach (KeyValuePair<int, string> i in d)

            {

                Console.WriteLine(" "+i.Value);

            }

        }

        static void Main(string[] args)

        {

            StudentDetails<string> h = new StudentDetails<string>(getSatudentName);

            h.Invoke("Akram Bb");

            StudentDetails<int> id = new StudentDetails<int>(getStudentId);

            id.Invoke(456);

            // invoking Student Details from Dictionary

            Program objP = new Program();

            objP.setAddress("Kampala");

            objP.storeDic();

        }

    }

}