**Collection demo 1:**

using System.Collections;

namespace coldemo\_pre

{

internal class Program

{

static void Main(string[] args)

{

ArrayList al = new ArrayList();

al.Add(10);

al.Add(10.2);

al.Add("ram");

al.Add('r');

al.Add(true);

Console.WriteLine("\n---------------------using foreach loop---------------------");

foreach (object o in al)

{

Console.WriteLine(o);

}

Console.WriteLine("\n---------------------using for loop---------------------");

for (int i = 0; i < al.Count; i++)

{

Console.WriteLine(al[i]);

}

Console.WriteLine("\n---------------------using iterator---------------------");

IEnumerator itr=al.GetEnumerator();

while (itr.MoveNext())

{

Console.WriteLine(itr.Current);

}

Console.ReadKey();

}

}

}

**Collection demo 2:**

using System.Collections;

namespace coldemo2\_pre

{

internal class Program

{

static void Main(string[] args)

{

ArrayList al=new ArrayList();

al.Add(30);

al.Add(10);

al.Add(50);

al.Add(20);

al.Add(40);

// Console.WriteLine(al.Count);

//Console.WriteLine(al.Contains(30));

// Console.WriteLine(al.IndexOf(30));

//al.Insert(2,800);

//al.Remove(30);

// al.RemoveAt(2);

// al.Reverse();

al.Sort();

foreach (object o in al)

{

Console.WriteLine(o);

}

Console.ReadKey();

}

}

}

**Collection demo 3:**

using System.Collections;

namespace coldemo3\_pre

{

internal class Program

{

static void Main(string[] args)

{

Hashtable ht = new Hashtable();

ht.Add(101, "ram");

ht.Add(102, "avinash");

ht.Add(103, "ganesh");

ht.Add(104, "suman");

ht.Add(105, "ganesh");

// ht.Add(102, "rakesh");

ht.Add(106,null);

//ht.Add(null, "rahul");

//foreach (object key in ht.Keys)

//{

// object val= ht[key];

// Console.WriteLine(key + " " + val);

//}

foreach (DictionaryEntry d in ht)

{

Console.WriteLine(d.Key+" "+d.Value);

}

Console.ReadKey();

}

}

}

Collection demo 4:

using System.Collections;

namespace coldemo4\_pre

{

internal class Program

{

static void Main(string[] args)

{

Stack st = new Stack();

st.Push(10);

st.Push(20);

st.Push(30);

st.Push(40);

st.Push(50);

//foreach(object o in st)

//{

// Console.WriteLine(o);

//}

//Console.WriteLine(st.Peek());

Console.WriteLine(st.Pop());

Console.ReadKey();

}

}

}

**Collection demo 5:**

using System.Collections;

namespace coldemo5\_pre

{

internal class Program

{

static void Main(string[] args)

{

Queue q = new Queue();

q.Enqueue(10);

q.Enqueue(20);

q.Enqueue(30);

q.Enqueue(40);

q.Enqueue(50);

//foreach (object o in q)

//{

// Console.WriteLine(o);

//}

// Console.WriteLine(q.Peek());

Console.WriteLine(q.Dequeue());

Console.ReadKey();

}

}

}

**Collection demo 6**

using System.Collections;

namespace coldemo6\_pre

{

internal class Program

{

static void Main(string[] args)

{

SortedList sl = new SortedList();

sl.Add(102, "ram");

sl.Add(103, "akash");

sl.Add(101, "ganesh");

foreach(DictionaryEntry d in sl)

{

Console.WriteLine(d.Key+" "+d.Value);

}

Console.ReadKey();

}

}

}

**Generic demo 7:**

namespace coldemo7\_pre

{

internal class Program

{

static void Main(string[] args)

{

List<int> li= new List<int>();

li.Add(10);

li.Add(20);

li.Add(30);

li.Add(40);

li.Add(50);

Console.WriteLine("\n----------------------using foreach loop------------------------");

foreach (int n in li)

{

Console.WriteLine(n);

}

Console.WriteLine("\n----------------------using for loop------------------------");

for(int i=0;i<li.Count;i++)

{

Console.WriteLine(li[i]);

}

Console.WriteLine("\n----------------------using iterator------------------------");

IEnumerator<int> itr = li.GetEnumerator();

while (itr.MoveNext())

{

Console.WriteLine(itr.Current);

}

Console.ReadKey();

}

}

}

**Generic demo 2:**

namespace coldemo8\_pre

{

internal class Program

{

static void Main(string[] args)

{

Stack<int> st = new Stack<int>();

st.Push(10);

st.Push(20);

st.Push(30);

st.Push(40);

st.Push(50);

foreach(int n in st)

{

Console.WriteLine(n);

}

Console.WriteLine(st.Peek());

Console.WriteLine(st.Pop());

Console.ReadKey();

}

}

}

**Generic demo 3:**

namespace coldemo9\_pre

{

internal class Program

{

static void Main(string[] args)

{

Queue<int> q = new Queue<int>();

q.Enqueue(10);

q.Enqueue(20);

q.Enqueue(30);

q.Enqueue(40);

q.Enqueue(50);

foreach (int n in q)

{

Console.WriteLine(n);

}

Console.WriteLine(q.Peek());

Console.WriteLine(q.Dequeue());

Console.ReadKey();

}

}

}

**Generic demo 4**

namespace coldemo10\_pre

{

internal class Program

{

static void Main(string[] args)

{

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

d.Add(101, "pooja");

d.Add(102, "ram");

d.Add(103, "soham");

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

{

Console.WriteLine(kvp.Key+" "+kvp.Value);

}

Console.ReadKey();

}

}

}

**Generic Demo 5**

namespace coldemo11\_pre

{

class Employee

{

public int empno { get; set; }

public string empname { get; set; }

public double salary { get; set; }

}

internal class Program

{

static void Main(string[] args)

{

//List<Employee> elist = new List<Employee>();

//elist.Add(new Employee { empno = 101, empname = "ram", salary=89000});

//elist.Add(new Employee { empno = 102, empname = "rahul", salary=87000});

//elist.Add(new Employee { empno = 103, empname = "suman", salary=66000});

List<Employee> elist = new List<Employee>()

{

new Employee {empno=101,empname="ram",salary=89000 },

new Employee {empno=102,empname="rahul",salary=87000 },

new Employee {empno=103,empname="suman",salary=66000 }

};

foreach(Employee e in elist)

{

Console.WriteLine(e.empno+"\t"+e.empname+"\t"+e.salary);

}

Console.ReadKey();

}

}

}