Collection (MIMP)

Drawback of array:

1. Array can store only homogeneous data
2. Fixed size
3. Can not be increased or decreased in array size at runtime

Collection

Collection is a built in Namespace

using System;

using System.Collections;

using System.Collections.Generic;

namespace is a collection of related classes and interfaces

Collections:

The classes in collections namespace are categorized into

1. Which work with index
2. Which work key value pair
3. Which work with lifo
4. Which work with fifo
5. Which work with index and value.

Step 1: created Employee Class)(only for one employee) but we have a lots of employeea then create repository – grp of datatypes

Class Employee

{

public int EmpId{get;set;}

public string Empname{get;set;}

public string EmpDesignation{get;set;}

public string Empdepartment{get;set;}

}

Class EmployeeRepository

{

Employee[] employees;

}

}

Step1 : Created Employee Class

class Employee

{

             public int Empid{get;set;}

             public string  EmpName{get;set;}

             public string Designation{get;set;}

             public string Department{get;set;}

}

Step2: Created EmployeeRepository

class EmployeeRepository

{

             public Employee[] employees;

             public EmployeeRepository(Employee[] employees)

             {

this.employees = employees;

             }

}

step3:

Main

Employee obj1 = new Employee(){Empid =1 ,EmpName ="samatha" ,Designation = "Manager" , Department = "Accounts"};

Employee obj2 = new Employee(){Empid =2,EmpName ="samatha" ,Designation = "Manager" , Department = "Accounts"};

Employee obj3 = new Employee(){Empid =3 ,EmpName ="samatha" ,Designation = "Manager" , Department = "Accounts"};

Employee obj4 = new Employee(){Empid =4 ,EmpName ="samatha" ,Designation = "Manager" , Department = "Accounts"};

Employee obj5 = new Employee(){Empid =5 ,EmpName ="samatha" ,Designation = "Manager" , Department = "Accounts"};

int[] arr = new int[] {1,2,3,4,5}

Employee[] employees  = new Employee[] {obj1,obj2, obj3, obj4, obj5}

EmployeeRepository emprep = new EmployeeRepository(){employees = employees);

OR

Employee[] employees2 = new Employee[]{

new Employee(){Empid =1 ,EmpName ="samatha" ,Designation = "Manager" , Department = "Accounts"},

new Employee(){Empid =2,EmpName ="samatha" ,Designation = "Manager" , Department = "Accounts"},

new Employee(){Empid =3 ,EmpName ="samatha" ,Designation = "Manager" , Department = "Accounts"},

new Employee(){Empid =5 ,EmpName ="samatha" ,Designation = "Manager" , Department = "Accounts"},

new Employee(){Empid =5 ,EmpName ="samatha" ,Designation = "Manager" , Department = "Accounts"}

}

EmployeeRepository emprep = new EmployeeRepository(){employees = employees2};

Auto generated constuctor

Or

EmployeeRepository emprep = new EmployeeRepository(employees2);

When constructor we created