Assignment 8

Question 1

using System;

using System.Collections.Generic;

using System.Linq;

using System.Reflection;

using System.Text;

using System.Threading.Tasks;

namespace ReflectioDemo

{

internal class Program

{

static void Main(string[] args)

{

Type T = Type.GetType("ReflectioDemo.Employee");

Console.WriteLine("FullName of Type = {0}",T.FullName);

//T.FullName for full class name;

Console.WriteLine("Name of Type = {0} ", T.Name);

//T.Name for class Name

Console.WriteLine("Namespace of type : {0} ", T.Namespace);

// T.Namespace for Namespace name

//With the hel[p of reflection we can identify how many

//classes ,properties and method are present.

//for identifying properties we have to make array

//ProprtyInfo[] like this given below

PropertyInfo[] properties = T.GetProperties();

Console.WriteLine("Id available are :");

foreach(PropertyInfo property in properties)

{

Console.WriteLine(property.Name);

//this will give all property which inside Employee class

Console.WriteLine(property.PropertyType.Name);

//This give data type of property like int ,char,float

Console.WriteLine(property.PropertyType.Name + " " + property.Name);

}

MethodInfo[] method = T.GetMethods();

Console.WriteLine("Method available are :");

foreach(MethodInfo meth in method )

{

Console.WriteLine(meth.Name);

}

Console.WriteLine("Construtor availabe are :");

ConstructorInfo[] constructors = T.GetConstructors();

foreach(ConstructorInfo constructor in constructors)

{

Console.WriteLine(constructor.Name);

}

Console.ReadLine();

Employee employee = new Employee();

}

}

public class Employee

{

public int Id { get; set; }

public string Name { get; set; }

public Employee(int id, string name)

{

Id = id;

Name = name;

}

public Employee()

{

this.Id = -1;

this.Name = string.Empty;

}

public void PrintID()

{

Console.WriteLine("ID = {0}",this.Id);

}

public void PrintName()

{

Console.WriteLine("Name = {0}", this.Name);

}

}

}

