Module -1 c#

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1. Can we use keywords as an identifier? Why?

- keywords cannot be used as identifiers. Because all keywords are reserved and give compile time error.

1. How can we manage runtime errors?

-The errors that occur during the execution of a program are called the runtime errors or the exceptions. Some of the examples of runtime error are Division by Zero, Stack overflow, Invalid type casting, and File not found.

1. What is abstract class?

-Abstract class that cannot be used to create objects. It must be inherited to another class.

1. What is dll?

* DLL is a library that contains code and data that can be used by more than one program at the same time.

1. What is namespace?

* Namespace are use in c# to organized and provide a level of separation of codes. They can be considered as a container which consists of other namespaces, classes etc.

1. What is difference between for loop and foreach loop.

* For loop executes a statements or a blocks of statement until given condition false. Whereas foreach loop executes a statements or a block of statements for each elements present in array and there is no longer is no need to define the maximum or minimum limit.

1. What is dictionary? Advantages of Dictionary?

* Dictionary is a generic collection which is generally used to store key/value pairs.

1. What is difference between array and list?

Array is fixed in size once it is allocated. You can't add items to it or remove items from it.

ArrayList is a flexible array which contains a list of objects.

1. What is generics? Explain with example

It is a class which allows the user to define classes and methods with the placeholder.

Example:

using System;

public class Program

{

class DataStore<T>

{

public T Data { get; set; }

}

class KeyValuePair<TKey, TValue>

{

public TKey Key { get; set; }

public TValue Value { get; set; }

}

public static void Main()

{

DataStore<string> strStore = new DataStore<string>();

strStore.Data = "Hello World!";

//strStorage.Data = 123; // compile-time error

Console.WriteLine(strStore.Data);

DataStore<int> intStore = new DataStore<int>();

intStore.Data = 100;

//intStorage.Data = "Hello World!"; // compile-time error

Console.WriteLine(intStore.Data);

KeyValuePair<int, string> kvp1 = new KeyValuePair<int, string>();

kvp1.Key = 100;

kvp1.Value = "Hundred";

Console.WriteLine(kvp1.Key + ", " + kvp1.Value);

KeyValuePair<string, string> kvp2 = new KeyValuePair<string, string>();

kvp2.Key = "IT";

kvp2.Value = "Information Technology";

Console.WriteLine(kvp2.Key + ", " + kvp2.Value);

}

}