

AWP

Today focus on handwriting and focus on structure of the answer. ~ Nammo Shh...

Q1

1 What are the differences between C# and VB in .NET languages?

As

Here are differences between C# and VB:

Criteria	C#	VB
1. Syntax	C# have a easily readable Syntax as it adopted from C	Visual Basics have a little difficult syntax as it adopted from BASIC
2. Compilation	C# compiles to .NET code assembly	VB compiles to hard code assembly.
3. Platform Support	C# is supported on multiple OS like MacOS, Windows, Linux	VB is only supported on Windows
4. Data types	C# have is a strongly typed loosely language as the variables have to declared with their types	VB is a loosely typed language as variables do not need to be declared with their types

5. OOP	C# is an object oriented programming language	VB does not have OOP and instead uses statements.
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Q1

2 What are the advantages of using .NET for software development?

As

[+] The .NET framework supports a wide range of platforms and web browsers which makes it ideal for developing high quality web apps for businesses.

[+] The .NET framework supports a lot of languages which makes it ideal for code readability and flexible approach to software development.

[+] The .NET framework supports inbuilt security features like Encryption and Authentication which makes it secure to develop software on it.

[+] The .NET even consists of large amount of libraries which promotes code reusability. This makes it ideal for businesses who want to develop softwares quickly.

[+] .NET is also have the capabilities to scale apps as it have many tools to do so. Businesses can leverage the benefit of this feature.

[+] Finally, .NET is also cost-effective. So businesses can develop software without breaking the bank.

Q1

3) What are the different data types and variables used in C#?

Ans

The types of variables can be divided into ~~three~~ two categories:

- a) Primitive or ~~Base~~-Derived data types
- b) Scope type

a) Primitive types include:

- [+] integer: Integers are non-decimal numbers
- [+] float: Floats are decimal numbers
- [+] String: Array of characters
- [+] boolean: A boolean store truth value
- [+] double: A double is float but with bigger
- [+] char: A character is an ASCII or UTF-16 or any character represented.

b) Derived data types include:

- [+] Array: A sequence similar type of value
- [+] Class: A data types that binds method

and properties of an object.

[+] Structures: A data type that binds field, methods and properties together.

[+] Enumerate: A collection of user-defined constants.

[+] Delegates: A unique data type to bind methods of an object.

c) Scope types:

[+] Local Instance: These variables are defined in a method or block.

[+] Global Instance: These variables are defined outside class.

[+] Static Instance: These variables are defined in the static field of a class.

[+] An Instance is also when variable is defined in a class.

In conclusion, C# have a wide range of data types that are same as that in C.

Q2

3. What are web control events and how are they used in web development?

As

[.] Web control events are activities that takes place in a web environment when user interact with web apps or web site.

[.] Web control events have a wide range of use cases:

[+] Tracking user activities:

- [.] Mouse tracking
- [.] Clicks events
- [.] Keyboard presses
- [.] Button presses
- [.] Mouse hovering
- [.] DOM element updates
- [.] DOM element additions
- [.] Input field tracking
- [.] and so on...

These events helps in making the site dynamic and allows to develop dynamic content for users.

Q5

5] What is AJAX and how is it used in web programming?

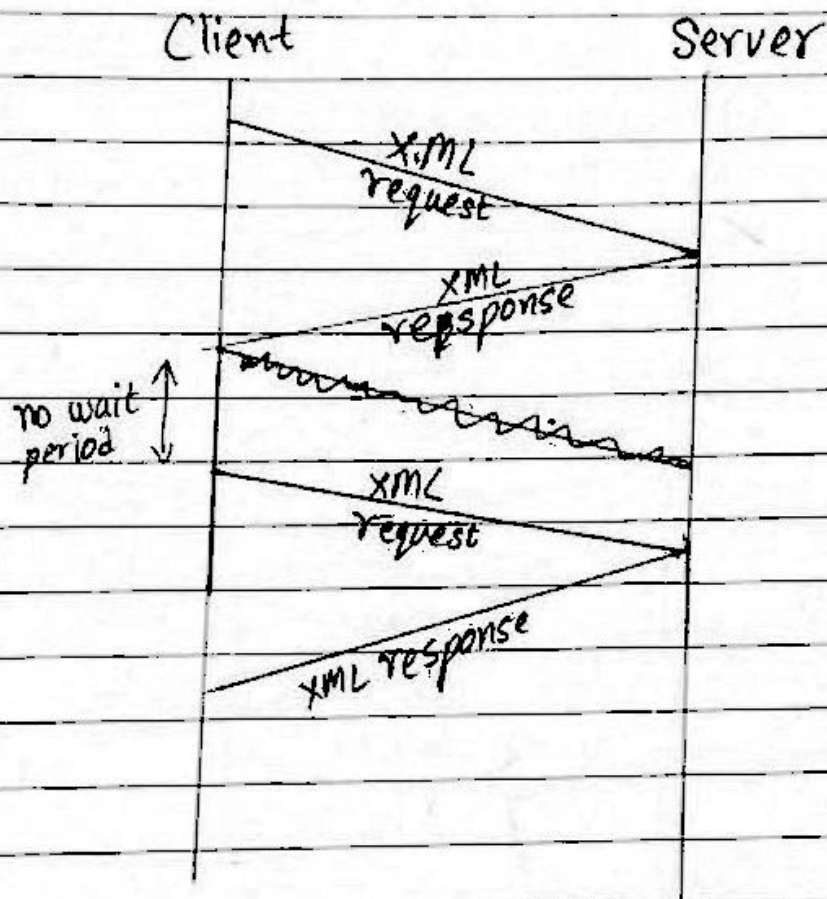
As

[.] AJAX is Asynchronous Javascript and XML. It is a type of two way communication between client Javascript and a server.

[.] The name Asynchronous implies that requests are not waited to be completed or responded and program flow continues.

[.] Here is a diagram demonstrating the

process of AJAX:



[1] AJAX are used for developing APIs in web apps. Thus, it play a major role in client - server architecture where two applications requires a communication with no wait period that doesn't affect the overall execution process of application and thus efficiently finishes the task with minimal time and resources.