1. What is polymorphism? Why is it an important part of object-oriented programming?

Polymorphism is a fundamental concept in object-oriented programming (OOP) that allows objects of different classes to be treated as objects of a common superclass. It enables a single interface to represent multiple data types or classes, providing a unified way of interacting with various objects.

Speaking of the importance of polymorphism, it helps to organize code hierarchically by creating relationships between classes through inheritance. It fosters the creation of well-structured and modular code. In addition, it promotes code extensibility by allowing new functionality to be added through subclassing and method overriding. This supports the open/closed principle, which encourages classes to be open for extension but closed for modification.

In summary, polymorphism enhances the overall design and flexibility of object-oriented programs, making them more robust, scalable, and adaptable to changes.

1. How is ASP.NET validation implemented into a Web Forms web page? Why is important to use ASP.NET validation control instead of solely relying on HTML validation?

ASP.NET validation is implemented in a Web Forms web page using ASP.NET validation controls. There are several ASP.NET validation controls available, such as RequiredFieldValidator, CompareValidator and RangeValidator etc.

ASP.NET validation controls perform validation on the server side, which is essential for security and data integrity. HTML validation, which is performed on the client side, can be bypassed by malicious users, as client-side validation can be disabled or manipulated. Server-side validation ensures that even if client-side validation is bypassed, invalid data is not processed on the server.

1. What are your favourite and least favourite parts of using ASP.NET and Web Forms?

My favourite part of using ASP.NET is its easiness. In a sharp contrast to HTML validation using JS, it is unnecessary to set up many conditional statements to verify but only use a few control elements to achieve same validation purposes. However, comparing with HTML validation, its syntaxes are difficult to memorize to use and have to practice many times to make it as your assets.