🔹 Basics of ASP.NET Core Web API

1. What is ASP.NET Core Web API?
2. What are the advantages of using ASP.NET Core over ASP.NET MVC?
3. What is REST and how does Web API relate to it?
4. What is the difference between MVC and Web API?
5. What is middleware in ASP.NET Core?

🔹 Routing and HTTP Verbs

1. How does routing work in ASP.NET Core Web API?
2. What are the different HTTP verbs and their use cases?
3. What is attribute routing?
4. Difference between [HttpGet], [HttpPost], [HttpPut], and [HttpDelete]?
5. How do you define route parameters in Web API?

🔹 Model Binding and Validation

1. What is model binding in ASP.NET Core?
2. How is data passed from the client to Web API?
3. What is model validation and how do you implement it?
4. What are data annotation attributes used for validation?

🔹 Dependency Injection

1. What is dependency injection (DI)?
2. How is DI implemented in ASP.NET Core?
3. Difference between AddScoped, AddSingleton, and AddTransient?

🔹 Entity Framework Core Integration

1. What is Entity Framework Core?
2. How do you connect your Web API to a database?
3. What is DbContext and how do you use it?
4. What is Code First approach in EF Core?

🔹 CRUD Operations

1. How do you implement CRUD operations in Web API?
2. How do you return appropriate HTTP status codes?
3. What is the difference between IActionResult and ActionResult<T>?
4. What status codes are commonly used in Web API responses?

🔹 Security

1. What is authentication and authorization?
2. What are some ways to secure a Web API?
3. What is JWT (JSON Web Token)?
4. How do you implement token-based authentication in ASP.NET Core?