Question 4: What is the difference between code-first approach and database-first approach in Entity Framework?

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| **Code-First Approach** | **Database-First Approach** |
| When there is NO existing database for the application. | When database is ready then Entity Framework will complete its duty and create POCO entities. |
| Developer starts writing the entities (domain classes) and context class first and then create the database from these classes using migration commands. | Modify the database manually and update model from database. |
| It has full control over the code rather than database activity. | It has full control over the database. |
| All the database operations from the code. | Entity framework can create model classes based on tables and columns from relational database |

Question 5: What is the MVVM design pattern?

Model + View + ViewModel (M-V-VM pattern) is about organizing and structuring the code to write maintainable, testable and extensible applications.

* Model − It simply holds the data and has nothing to do with any of the business logic.
* ViewModel − It acts as the link between the Model and View and makes stuff look pretty.
* View − It simply holds the formatted data and essentially delegates everything to the Model.