**ADVANCED WEB APPLICATION DEVELOPMENT**

**ASSIGNMENT WEEK 12**

**What is data binding? Implement type of data binding in  Angular .**

**Answer:** Data binding is a technique that allows you to synchronize the data between the model and the view. In Angular, there are four types of data binding:

1. Interpolation: This is a one-way data binding technique that allows you to display the value of a variable in the view. You can use interpolation by wrapping the variable name in double curly braces {{ }}.
2. Property binding: This is another one-way data binding technique that allows you to set the value of an HTML element property from a component. You can use property binding by wrapping the property name in square brackets [].
3. Event binding: This is a one-way data binding technique that allows you to respond to user events such as button clicks or mouse movements. You can use event binding by wrapping the event name in parentheses ().
4. Two-way binding: This is a two-way data binding technique that allows you to synchronize the data between the model and the view in both directions. You can use two-way binding by wrapping the variable name in square brackets and parentheses [(ngModel)].

Here’s an example of how you might use these types of data binding:

<input [value]="name" (input)="name = $event.target.value">

<p>Hello {{name}}!</p>

In this example, we’re using property binding to set the value of an input element to the value of a variable called name. We’re also using event binding to update the value of name whenever the user types something into the input element. Finally, we’re using interpolation to display the value of name in a paragraph element.