Need for ModelAttribute

@ModelAttribute:

- Binds form data to an object and adds it to the model. Example:

```
public String addAlien(@ModelAttribute Alien alien) { ... }
```

1. Change index.jsp

```html
<h2>Telusko Calculator</h2>

<form action="addAlien">
    <label for="aid">Enter Id : </label>
    <input type="text" id="aid" name="aid"><br>
    <label for="aname">Enter Name :</label>
    <input type="text" id="name" name="name"><br>
    <input type="submit" value="Submit">
</form>
```

2. Create Controller for addAlien
   Before using ModelAttribute, we are using the RequestParam annotation.

```java
@RequestMapping("addAlien")
public ModelAndView addAlien(@RequestParam("aid") int aid,
@RequestParam("aname") String aname, ModelAndView mv) {
    int result = num1 + num2;

    mv.addObject(attributeName: "result", result);
    mv.setViewName("result");

    return mv;
}
```

3. Create an Alien class

```java
public class Alien {
    private int aid;
    private String aname;

    //Setters & Getters
}
```
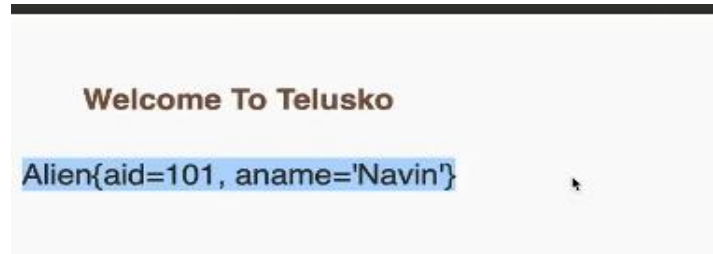
4. Make some changes in the addAlien controller.

```java
@RequestMapping("addAlien")
public ModelAndView addAlien(@RequestParam("aid") int aid, @RequestParam("aname")
String aname, ModelAndView mv) {
    Alien alien = new Alien();
    alien.setAid(aid);
    alien.setAname(aname);

    mv.addObject("alien", alien);
    mv.setViewName("result");

    return mv;
}
```

5. Create an result.jsp

```jsp
<%@page language="java" %>

<html>
  <head>
    <link rel="stylesheet" type="text/css" href="style.css">
  </head>

  <body>
    <h2>Welcome To Telusko</h2>

    <p>${alien}</p>
  </body>
</html>
```

Output:

Welcome To Telusko

Alien{aid=101, aname='Navin'}

⇨ A better way is to take the whole property value into a single Alien object. (We can see this in the next lecture.).

⇨ Inside HomeController, add method as courseName.

```
@ModelAttribute("course")
public String courseName() {
    return "Java";
}
```