# Pop Quiz

## LINQ Questions

**Given:** var db = new ApplicationDbContext();

**How do I get the following data?**

1. All records from the BlogPosts table **db.BlogPosts.ToList();**
2. All records from the Comments table **db.Comments.ToList();**
3. All published BlogPosts

**db.BlogPosts.Where(p => p.Published == true);**

1. All comments in reverse chronological order based on Created date

**db.Comments.OrderByDescending(p => p.Created);**

1. The first unpublished records

**db.BlogPosts.Where(p => p.Published== true).First();**

1. The first 5 BlogPosts

**db.BlogPosts.Where(p => p.Id <= 5);**

**db.BlogPosts.Orderby(b => b.Created).Take(5);**

1. All comments for BlogPost with Id = 117

**db.Comments.Where(p => p.PostId = 117);**

1. The user record with id '097b70b0-21f8-4b0f-9797-89111a8dc616'

**db.Users.Where(p => p.Id = 097b70b0-21f8-4b0f-9797-89111a8dc616);**

db.users.find(“**097b70b0-21f8-4b0f-9797-89111a8dc616”**);

**jQuery Questions Given:**

* Input 1: <input id="input1"/>
* Input 2: <input class="input2 stdclass"/>
* Paragraph 1: <p class="para1 stdclass">Test Data</p>
* Button 1: <button id="btn1">Click Me</button>
* Paragraph 2: <p id="para2"></p>

**How do I do the following?**

1. Get the content of Input 1 **var input = $(“#Input1”).val();**
2. Get the content of Input 2 **var input = $(“.Input2”).val();**
3. Get the content of Paragraph 1 **var input = $(“.para1”).text();**
4. Add "Test data" into Paragraph 2 **$(“#para2”).text(“Test Data”);**
5. Add "<h1><strong>Test Data</strong></h1>" into Paragraph 2

**$(“#para2”).html("<h1><strong>Test Data</strong></h1>");**

1. Wire up a click event handler for Button 1 that fires off an Alert with the text "Hello World"

**$(“#btn1”).click(function () {**

**alert(“Hello World”);**

**});**

1. What is the proper jQuery selector necessary to target both Input 2 and Paragraph 1?

**$(“.stdclass”)**

## CSS Questions

Using the HTML elements provided for the previous exercise how would I do the following

1. Write a rule that targets id="input1"

**<style>**

**#input1 {**

**color: red;**

**}**

**</style>**

1. Write a rule that targets Paragraph2 specifically

**<style>**

**#para2 {**

**color: red;**

**}**

**</style>**

1. Write a rule that targets both Input1 and Input 2 specifically

**<style>**

**#input1, .input2 {**

**color: red;**

**}**

**</style>**

## Code Work

1. Code up the Fizz-Buzz algorithm

**$(“#btn1”).click(function(){**

**var in1 = +($(“#input1”).val());**

**var in2 = +($(“#input2”).val());**

**var fizzbuzz = “”;**

**for (var i = 1; i <= 100; i ++) {**

**var fizz = i % in1;**

**var buzz = i % in2;**

**if (fizz == 0 && buzz == 0) {**

**var fizzbuzz = fizzbuzz + “fizzbuzz, ”**

**}**

**else if (fizz == 0) {**

**var fizzbuzz = fizzbuzz + “fizz, ”**

**}**

**else if (buzz == 0) {**

**var fizzbuzz = fizzbuzz + “buzz, ”**

**}**

**else {**

**var fizzbuzz = fizzbuzz + i + “, ”**

**}**

**}**

**fizzbuzz = fizzbuzz.substring(0,fizzbuzz.length - 2);**

**$(“#out”).text(fizzbuzz);**

**});**

1. Code up 2 ways to Reverse a string

**Var string = $(“#in1”).val();**

**Var split = string.split(“”);**

**Var reverse = split.reverse();**

**Var join = reverse.join(“”);**

**$(“#out”).text(join);**

**Var string = $(“#in1”).val();**

**Var reverse = “”;**

**For (var i = string.length -1; i >= 0; i--;){**

**Reverse += string[i]**

**}**

**$(“#out”).text(reverse);**

# Pop Quiz

## Theory Questions

1. What is MVC? **Model View Controller refers to a software architectural pattern commonly used in website design. Models are used to hold data, views present this data to the user and allow them to interact with it, and the controller takes all requests and sends data to the view. This allows the users to manipulate data and do things such as add records to a database, such as comments on a blog post. It also provides user authentication features in user accounts, and authentication based on user accounts and roles allowing for increased security in websites.**
2. Explain the HttpGet data cycle **The get method is used to retrieve data from the server, and show it to the user.**
3. Explain the HttpPost data cycle **The post method is used to insert or update data into the server. (HTML form)**
4. What command do I use in the PM to turn on automatic migrations? **Enable-Migrations -EnableAutomaticMigrations**
5. What command do I use in the PM to turn my C# classes into DB tables? **Update-Database**
6. How do I create a new MVC project in VS with Individual User Authentication? **Click File, New, Project, Asp.Net Web Application, Choose MVC in the options, Click Change Authentication, and choose Individual User Accounts.**
7. Which DB tables are created automatically for us by Entity Framework (EF)? **AspNetRoles, AspNetUserClaims, AspNetUsers, AspNetUserRoles, AspNetUserLogins. (Also creates \_MigrationsHistory if migrations are enabled)**
8. How do I add a new folder to my MVC project? **Right click the project name in solution explorer, click add, and click new folder.**
9. How do I add a new class to my MVC project? **Right click the project name in solution explorer, click add, click new item, and choose class file.**
10. How do I add a new JavaScript file to my project? **Right click the project name in solution explorer, click add, click new item, and choose JavaScript file.**
11. How do I add a new stylesheet to my project? **Right click the project name in solution explorer, click add, click new item, and choose stylesheet.**