

Instructions:

 Answer questions in your exam book, in sequence.

For each of the following pieces of code, tell:

- A. Which language the code is written in, JavaScript or PHP.
 - B. How you can tell which language.
 - C. What the code does.
1. `x = { };`
 2. `x = [];`
 3. `(function() { ... })`
 4. `$x = array();`
 5. `$x = new Person();`
 6. `echo "Hello, World!";`
 7. `evt = evt ? evt : window.event;`
8. What is the difference between an event *listener* and an event *handler*?
 9. A web page contains a form that has "the-form" as its id and a text input element that has "email" as its id.
 - A. Assume there is a function named *init()* that will be called when the web page has been loaded, and write the code that would go inside this function to set things up so that another function, named *submitListener()* will be called when the form is submitted. Assume the Core library has been loaded, and use its features so your code will work across platforms.
 - B. Write code that could be put inside *submitListener()* that will display the value the user has typed into the text input at the time when the form is submitted. (I know, "display" is ambiguous; use any technique you like, other than *console.log()*, for this.)
 10. Describe the similarities and differences between submitting a form and using an XMLHttpRequest object. Indicate the difference in how the form data is sent to the server, how the web page on the server is constructed, and the difference in the user's experience with the web page.
 11. What do the functions *json_encode()* and *json_decode()* do?
 12. What is an *SQL injection attack*, and how can it be prevented?
 13. Tell what each of the following functions does by describing the parameters(s) passed to the function and the value returned. Use English sentences to describe the parameters and return value, *not sample code*.
 - A. `pg_connect()`
 - B. `pg_query()`
 - C. `pg_num_rows()`
 - D. `pg_fetch_assoc()`
 14. Have you completed your online course evaluations for this semester yet or, if not, will you have done so by this Friday's deadline?