What four components (at the minimum) are needed to create a fully dynamic web page?
Php ,MySql,css,html

What does HTML stand for? HyperText Markup Language sections, paragraphs, and links using HTML elements

• Why does the name MySQL contain the letters SQL? MySQL accepts commands in Structured Query Language (SQL)
 • PHP and JavaScript are both programming languages that generate dynamic results for web pages. What is their main difference, and why would you use both of them? Javascript requires an environment for accessing the database. PHP allows easy and direct access to the database. JavaScript is used to create real-time games and applications, mobile applications etc. A PHP program is used to create dynamic pages, send cookies, receive
• What does CSS stand for? Cascading Style Sheets for example, to alter the font, color, size, and spacing of your content,
 • List three major new elements introduced in HTML5.
Details, nav ,aside
1.1.1   • If you encounter a bug (which is rare) in one of the open source tools, how do you think you could get it fixed? **download the code, run a tests , fix the bug**

• Why is a framework such as jQuery or React so important for developing modern websites and web apps? the React

code is easier to maintain and is flexible due to its modular structure.

- What is the difference between a WAMP, a MAMP, and a xamp : Xamp support MariaDB, MAMP, WAMP uses MySQL, which is an RDBMS for storing and retrieving operations on data.

- What do the IP address 127.0.0.1 and the URL http://localhost have in common?

- What is the purpose of an FTP program? e developers who connect to their web server using an FTP client or FTP program (e.g., FileZilla) to send (upload) updated versions of a web pa

- • Name the main disadvantage of working on a remote web server equires strong network connectivity along with other technical requirements

- Why is it better to use a program editor instead of a plain-text editor?

What tag is used to invoke PHP to start interpreting program code? And what is the short form of the tag? <? php ... ?>

- What are the two types of comment tags? single line, multi-line,

Which character must be placed at the end of every PHP statement? semicolon (;).

Which symbol is used to preface all PHP variables? $ (dollar)

- What is the difference between $variable = 1 and $variable == 1? $variable = 1 is an assignment statement, whereas $variable == 1 is a comparison operator.

- Why do you suppose that an underscore is allowed in variable names ($current_user), whereas hyphens are not ($current-user)? , variable names are case-sensitive, and both underscores and letters are allowed.

- Are variable names case-sensitive? all variables and function names are case sensitive.

- Can you use spaces in variable names? variable names can't have spaces in them

- How do you convert one variable type to another (say, a string to a number)? Questions

- What is the difference between ++$j and $j++? With ++a, a is incremented first, and that is the value you get; with a++ you get the value of a, and a is incremented afterwards.

- Are the operators && and and interchangeable? No

- How can you create a multiline echo or assignment? here is an example of a multiline echo in a bash script:
echo -e "Line 1\nLine 2\nLine 3"
For assignments, you can use a backslash (\) for a multiline string assignment:
message="Line 1\n\Line 2\n\Line 3"
In other languages like Python, you can use triple quotes (''') for multiline strings:
message = '''\nLine 1\nLine 2\nLine 3''

- Can you redefine a constant? The value of a constant can't be changed through reassignment using the assignment operator

- How do you escape a quotation mark? use a backslash \

- What is the difference between the echo and print commands? echo can be used with or without parentheses, Print can also be used with or without parentheses.

- What is the purpose of functions? essential for formulating physical relationships in the sciences.

- How can you make a variable accessible to all parts of a PHP program? use the GLOBAL keyword before the variable.

- If you generate data within a function, what are a couple of ways to convey the data to the rest of the program? returning a value or modifying a global variable.

- What is the result of combining a string with a number? an integer value.

What actual underlying values are represented by TRUE and FALSE? special versions of 1 and 0 respectively

- What are the simplest two forms of expressions? literals (such as numbers and strings) and variables

- What is the difference between unary, binary, and ternary operators? Unary operators: which require one operand (Un) Binary operators: which require two operands (Bi) Ternary operators: which require three operands (Ter)

- What is the best way to force your own operator precedence? place parentheses around subexpressions to which you wish to give high precedence.

- What is meant by operator to skip the current iteration of a loop and move on to the next one? continue statement

- Why is a for loop more powerful than a while loop? for loop is used when the number of iterations is known, whereas execution is done in the while loop until the statement in the program is proved wrong

associativity? a property that determines how operators of the same precedence are grouped in the absence of parentheses.

- When would you use the === (identity) operator? allows for a much stricter comparison between the given variables or values

- Name the three conditional statement types. The zero conditional ,Switch statement ,Else

- What command can you use

- How do if and while statements interpret conditional expressions of different data types? trigger execution when they evaluate to TRUE

- What is the main benefit of using a function? Enables reusability and reduces redundancy

- How many values can a function return? Only one value

- What is the difference between accessing a variable by name and by reference? Call by Value passes a copy of the variable. Call by Reference passes the variable itself

• What is the meaning of scope in PHP? the part of the script where the variable can be referenced/used.

• How can you incorporate one PHP file within another? The 'include' or 'require' statement

• How is an object different from a function? An object is a collection of functions and data.

• How do you create a new object in PHP? using the new keyword.

• What syntax would you use to create a subclass from an existing one? class SubClass extends SuperClass { . . . }

• How can you cause an object to be initialized when you create it? using Object.create() or by invoking a constructor function with the new operator

• Why is it a good idea to explicitly declare properties within a class?