

1. What is lexical structure?

=> Lexical structure means the set of rules that specifies how to write a programming language, In other words, we can say that it is the grammar of the programming language. It is the low-level syntax of a language. It gives some rules like how to declare a variable, how a line should end, where to use semicolons etc...

2. What is Unicode?

=> Unicode is a universal character set that defines the list of characters from the majority of the writing systems, and associates every character with a unique number (code point).

3. Explain all the keyboards present in JavaScript with examples.

=> There are two types of the keyboard in javascript physical keyboard and virtual keyboard. if we press any button on our keyboard it triggers an event. Keyboard in javascript accessible through browser API which delegates a to os API. If we remove the physical keyboard and use a virtual keyboard browser will still trigger a click event on every click event in virtual keyboard.

4. What are shorthand operators, explain with a suitable example?

=> Shorthand operators allow us to write less and optimized code. let's take an example where  $x=3$ ,  $y=5$  if we want to add  $x$  and  $y$  and store the value of the result in the new variable  $x$  then we usually write as.

```
x = 3, y = 5;  
x = x + y;  
x = 3 + 5  
x = 8  
but if we use a shorthand here ...
```

```
x += y  
x = 8;
```

5. What is "use Strict" in JavaScript?

=> "use Strict" in JavaScript put some restrictions on writing code in JavaScript. It makes it easier to write "secure" code.

For example in normal JavaScript, JavaScript allows us to declare a variable and if we don't want to use it then we simply ignore it. But in the restrict mode, it gives us an error we have to use that variable in restrict mode. There are many operations that JavaScript doesn't allow us in strict mode like ...Using a variable, without declaring it, Using an object, without declaring it etc.