# MODULE-1:

# (Introduction and Code Quality)

1) Write a program to Show an alert

Ans.    <html>

<head>

<script type = "text/javascript">

function fun() {

alert ("This is an alert dialog box");

}

</script>

</head>


<body>

<p> Click the following button to see the effect </p>

<form>

<input type = "button" value = "Click me" onclick = "fun();" />

</form>

</body>

</html>


2 What will be the result for these expressions?

1. 5 > 4

2. "apple" > "pineapple"

3. "2" > "12"

4. undefined == null

5. undefined === null

6. null == "\n0\n"

7. null === +"\n0\n"

Ans

1. 5 > 4 → true

2. "apple" > "pineapple" → false

3. "2" > "12" → true

4. undefined == null → true

5. undefined === null → false

6. null == "\n0\n" → false

7. null === +"\n0\n" → false


Some of the reasons:

Obviously, true.

Dictionary comparison, hence false. "a" is smaller than "p".

Again, dictionary comparison, first char "2" is greater than the first char "1".

Values null and undefined equal each other only.

Strict equality is strict. Different types from both sides lead to false.

Similar to (4), null only equals undefined.

Strict equality of different types.


3 Will alert be shown? if ("0") { alert( 'Hello'); }

Ans

<script>

alert ("Hello");

</script>

4What is the code below going to output? alert( null || 2 || undefined );

Ans

-> alert( null || 2 || undefined );

The answer is 2, that's the first truthy value.

5 The following function returns true if the parameter age is greater than 18.

Otherwise it asks for a confirmation and returns its result:

function checkAge(age)

{ if (age> 18) { return true; } else { // ...return confirm ('did parents allow you?'); } }

Ans

This function is called is Old Enough To Vote (age) and has the following specifications: It takes an argument called age representing the age of the person. It checks if the age is greater than or equal to 18. If returns true or false based on that comparison.

```
let response;

var age = 18

// Add your code here

function  is Old Enough To Vote (age)

{

 if (age >= 18)

{

    result; 'true'

 }

Else
```

```
{
    result; 'false'
  }
```

6 Replace Function Expressions with arrow functions in the code below:

Function ask

(question , yes, no)

{

if (confirm(question))

yes

(); else

No

();

}

Ask

("Do you agree?",

Function()

{

Alert

("You agreed.");

},

function()

{

Alert

("You cancelled the execution.");

}

```
}
```

Ans

```html
<!DOCTYPE html>
<script>
"use strict";

function ask (question, yes, no) {
  if (confirm(question)) yes ();
  else no ();
}

Ask (
  "Do you agree?",
  () => alert ("You agreed."),
  () => alert ("You cancelled the execution.")
);
</script>
```