Introduction to JavaScript

a) Which of the following is a valid way to declare a variable in JavaScript?

```
let x = 5;
```

```
var y = "Hello";
```

```
const z = true;
```

```
All of the above
```

b) What is the output of the following code?

```
let x = 5;
```

```
let y = 10;
```

```
console.log(x + y);
```

```
15
```

```
50
```

```
"510"
```

```
None of the above
```

c) Which statement is used to stop a loop?

```
stop
```

```
exit
```

```
break
```

```
return
```

Functions and Scope

Introduction to JavaScript

a) What is the output of the following code?

```
let x = 5;



function addFive() {

  x = x + 5;

  console.log(x);

}



addFive();

5

10

15

Error
```

b) Which of the following is the correct way to declare a function in JavaScript?

```
function myFunction() { /* code */ }

let myFunction = function() { /* code */ }

const myFunction = () => { /* code */ }

All of the above
```

c) What is the value of x after executing the following code?

```
let x = 10;
```

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```javascript
function outer() {

  let x = 20;



  function inner() {

   x = 30;

  }



  inner();

}



outer();

console.log(x);

10

20

30

Error
```

Arrays and Objects

a) How do you access the first element of an array called myArray?

```
myArray[0]

myArray.first
```

```
myArray.get(0)
```

```
myArray.length[0]
```

b) What is the output of the following code?

```
let person = {

  name: "John",

  age: 30,

  city: "New York"

};



console.log(person.age);

undefined

30

null

Error
```

c) How do you convert a JavaScript object into a JSON string?

```
JSON.stringify(obj)
```

```
obj.toJSON()
```

```
JSON.parse(obj)
```

```
obj.toString()
```

DOM Manipulation

Introduction to JavaScript

a) Which method is used to select an HTML element with a specific ID?

```
document.getElementById()
```

```
document.querySelector()
```

```
document.getElementByClass()
```

```
document.getElementsByTagName()
```

b) How do you add an event listener to a button element?

```
<button id="myButton">Click me</button>
```

```
const button = document.getElementById('myButton');
```

```
// Add event listener here
```

```
button.onclick = function() { /* code */ }
```

```
button.addEventListener('click', function() { /* code */ })
```

```
button.on('click', function() { /* code */ })
```

```
button.addEvent('click', function() { /* code */ })
```

c) What is the difference between event.preventDefault() and event.stopPropagation()?

```
preventDefault() stops the default behavior of an event, and stopPropagation() stops
```
the event from bubbling up the DOM tree.

```
preventDefault()  stops  the  event  from  bubbling  up  the  DOM  tree,  and
```
stopPropagation() stops the default behavior of an event.

```
They are the same function with different names.
```

```
They have no difference; they are used interchangeably.
```

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