For-Loop

1. What will be the output of this code:

```javascript
for (var i = 0; i < 5; i++) {
   console.log(i);
}
```

0

1

2

3

4

Explanation: The loop runs from 0 to 4, printing each value of i.

2. What will be the output of this code:

```javascript
for (var i = 0; i < 5; i += 2) {
   console.log(i);
}
```

0

2

4

Explanation: The loop increments i by 2 each time, so it prints 0, 2, and 4.

3. What will be the output of this code:

```javascript
for (var i = 5; i >= 0; i--) {
   console.log(i);
}
```

5

4

3

2

1

0

Explanation: The loop decrements i from 5 to 0, printing each value.

4. What will be the output of this code:

```javascript
for (var i = 0; i < 5; i += 3) {
  console.log(i);
}
```

Output:

0

3

Explanation: The loop increments i by 3 each time, so it prints 0 and 3.

5. What will be the output of this code:

```javascript
for (var i = 0; i > 5; i++) {
  console.log(i);
}
```

Output:

Explanation: The loop condition i > 5 is false initially, so the loop doesn't execute. Nothing is printed.

6. What will be the output of this code:

```javascript
for (var i = 5; i <= 0; i--) {
  console.log(i);
}
```

Output:

Explanation: The loop condition i <= 0 is false initially, so the loop doesn't execute. Nothing is printed.

7. What will be the output of this code:

```javascript
for (var i = 0; i < 10; i += 4) {
  console.log(i);
}
```

Output:

0

4

8

Explanation: The loop increments i by 4 each time, so it prints 0, 4, and 8.

8. What will be the output of this code:

```javascript
for (var i = 0; i < 5; i++) {
  if (i === 3) break;
  console.log(i);
}
```

Output:

0

1

2

Explanation: The loop breaks when i is 3, so it prints 0, 1, and 2.

9. What will be the output of this code:

```javascript
for (var i = 0; i < 5; i++) {
  if (i === 2) continue;
  console.log(i);
}
```

Output:

0

1

3

4

Explanation: The loop skips the iteration when i is 2, so it prints 0, 1, 3, and 4.

10. What will be the output of this code:

```
for (var i = 0; i < 5; i++) {
  if (i === 1) return;
  console.log(i);
}
```

Output:

0

Explanation: The loop will start with i=0 and it will print 0. On the next iteration i will be 1. The if condition I === 1 will be true, and the return statement will be executed, exiting the function immediately.