



JAVASCRIPT VARIABLES TASK

1. What will the following code output?

```
javascript  
var x = 10;  
let y = 20;  
x = x + y;  
console.log(x);
```

- A) 10
- B) 20
- C) 30
- D) undefined

2. What will the following code output?

```
javascript  
const a = 10;  
a = 20;  
console.log(a);
```

- A) 10
 - B) 20
 - C) undefined
 - D) TypeError
-

3. What will the following code output?

javascript

```
let a = 5;  
let b = 10;  
a = b;  
console.log(a);
```

- A) 5
 - B) 10
 - C) undefined
 - D) null
-

4. What will the following code output?

javascript

```
var a = 10;  
let b = 5;  
{  
  var a = 15;  
  let b = 20;  
}  
console.log(a);  
console.log(b);
```

- A) 10, 5
 - B) 15, 20
 - C) 15, 5
 - D) 10, undefined
-

5. What will the following code output?

javascript

```
let x = 10;  
{  
  let x = 20;  
  console.log(x);  
}  
console.log(x);
```

- A) 20, 20
- B) 10, 20
- C) 20, 10
- D) undefined, 10

6. What will the following code output?

javascript

```
const a = 10;  
{  
  const a = 20;  
  console.log(a);  
}  
console.log(a);
```

- A) 10, 10
- B) 20, 10
- C) 20, 20
- D) undefined, 10

7. What will the following code output?

javascript

```
var x;  
console.log(x);  
x = 10;
```

- A) 10
- B) undefined
- C) ReferenceError
- D) null

8. What will the following code output?

javascript
console.log(y);
var y = 5;

- A) undefined
- B) 5
- C) ReferenceError
- D) null

9. What will the following code output?

javascript

```
let y = 5;  
console.log(y);  
y = 10;  
console.log(y);
```

- A) 5, 10
 - B) 10, 5
 - C) undefined, 10
 - D) null, 10
-

10. What will the following code output?

javascript

```
console.log(z);  
let z = 5;
```

- A) 5
 - B) undefined
 - C) ReferenceError
 - D) null
-

11. What will the following code output?

javascript

```
let a = 10;  
{  
  let a = 20;  
  a++;  
  console.log(a);  
}  
a++;  
console.log(a);
```

- A) 21, 11
- B) 20, 11
- C) 21, 21

- D) 11, 21
-

12. What will the following code output?

javascript

```
const a = 10;  
const b = a + 5;  
console.log(b);
```

- A) 15
 - B) 10
 - C) undefined
 - D) null
-

13. What will the following code output?

javascript

```
var x = 10;  
{  
  var x = 20;  
  console.log(x);  
}  
console.log(x);
```

- A) 10, 20
 - B) 20, 20
 - C) undefined, 20
 - D) null, 20
-

14. What will the following code output?

```
javascript  
var x = 5;  
{  
  let x = 10;  
  console.log(x);  
}  
console.log(x);
```

- A) 10, 10
 - B) 10, 5
 - C) 5, 5
 - D) undefined, 5
-

15. What will the following code output?

```
javascript
```

```
let a = 1;  
const b = a + 1;  
console.log(b);
```

- A) 1
 - B) 2
 - C) undefined
 - D) TypeError
-

16. What will the following code output?

```
javascript
```

```
const arr = [1, 2];  
arr[0] = 10;  
console.log(arr);
```

- A) [10, 2]
 - B) [1, 2]
 - C) TypeError
 - D) undefined
-

17. What will the following code output?

javascript

```
let x = 10;  
x = x + 5;  
console.log(x);
```

- A) 5
 - B) 10
 - C) 15
 - D) undefined
-

18. What will the following code output?

javascript

```
const a = 5;  
let b = a + 10;  
console.log(b);
```

- A) 5
- B) 10
- C) 15
- D) undefined

19. What will the following code output?

javascript

```
let x = 20;
{
  let x = 30;
  console.log(x);
}
console.log(x);
```

- A) 20, 20
- B) 30, 30
- C) 30, 20
- D) undefined, 20

20. What will the following code output?

javascript

```
var x = 100;
let y = 200;
{
  var x = 300;
  let y = 400;
  console.log(x);
  console.log(y);
}
console.log(x);
console.log(y);
```

- A) 300, 400, 300, 200
 - B) 300, 400, 100, 200
 - C) 300, 200, 300, 200
 - D) undefined, 400, 300, 200
-

21. What will the following code output?

javascript

```
const x = 5;  
{  
  const x = 10;  
  console.log(x);  
}  
console.log(x);
```

- A) 5, 5
 - B) 10, 10
 - C) 10, 5
 - D) undefined, 5
-

22. What will the following code output?

javascript

```
let x;  
console.log(x);  
x = 15;  
console.log(x);
```

- A) undefined, 15
 - B) 15, 15
 - C) undefined, undefined
 - D) ReferenceError
-

23. What will the following code output?

javascript

```
let a = 10;
{
  let a = 20;
  console.log(a);
}
console.log(a);
```

- A) 10, 10
- B) 20, 10
- C) 10, 20
- D) undefined, 10