

1. Print Numbers Write a for loop to print numbers from 1 to 10 in the console.

```
for ( var i = 1; i <=10; i++) {  
    console.log(i)  
}
```
2. Sum of Numbers Write a for loop to calculate the sum of the first 5 natural numbers (1, 2, 3, 4, 5) and display the result.

```
var sum=0;  
for ( var i = 1; i <=5; i++) {  
    sum= sum + i  
}  
console.log(sum)
```
3. Even Numbers Write a for loop to print all even numbers between 1 and 20.

```
for (var x =2; x<=20; x+=2){  
    console.log(x)  
}
```
4. Reverse Counting Write a for loop to print numbers from 10 to 1 in descending order.

```
for ( var y = 10; y>=1; y--) {  
    console.log(y)  
}
```
5. Multiplication Table Write a for loop to print the multiplication table of 5 (from 5×1 to 5×10).

```
for (var z=5; z<=50; z+=5){  
    console.log(z)  
}
```

Basic Level:

6. What is the starting point of a basic for loop in JavaScript? Ans: A B C D
-
A) for (let i = 1; i < 10; i++)
-
B) for (let i = 0; i < 10; i++)
-
C) for (let i = 0; i <= 10; i++)
-
D) for (let i = 1; i <= 10; i++)
7. What part of the for loop controls how many times the loop executes? Ans: D

-
- A) Initialization
-
- B) Condition
-
- C) Increment/Decrement
-
- D) All of the above

8. What will be the output of the loop? Ans: A

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

-
- A) 0, 1, 2, 3, 4
-
- B) 1, 2, 3, 4, 5
-
- C) 1, 2, 3, 4
-
- D) 0, 1, 2, 3, 4, 5

4. Can a for loop be used without a condition? Ans: A

-
- A) Yes
-
- B) No

5. What is the significance of the increment part of the for loop? Ans: C

-
- A) It checks the condition.
-
- B) It initializes the loop.
-
- C) It changes the loop variable each iteration.
-
- D) It ends the loop.

6. What will be the output of the following code? Ans : A

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

-

A) 5, 4, 3, 2, 1

-

B) 1, 2, 3, 4, 5

-

C) 4, 3, 2, 1

-

D) 5, 4, 3, 2, 1, 0

7. Can the loop variable be modified inside the for loop body? Ans: A

-

A) Yes

-

B) No

8. What happens if the condition in the for loop is always true? Ans: A

-

A) Loop runs indefinitely.

-

B) Loop will never run.

-

C) Loop runs once.

-

D) Loop exits immediately.

9. What does the loop do? Ans: A

```
for (let i = 3; i < 10; i += 2) { console.log(i);  
}
```

-

A) 3, 5, 7, 9

-

B) 4, 6, 8, 10

-

C) 5, 7, 9

-

D) 3, 4, 5, 6

10. What will happen in this code? Ans: B

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

-

A) 0, 1, 2

-

B) 5, 5, 5

-

C) Error

-

D) Infinite loop

Intermediate Level:

11. What is the scope of the variable i in a for loop? Ans: B

-

A) Global

-

B) Local to the block

-

C) Local to the function

-

D) None

12. Which of the following is a valid for loop? Ans: B

-

A) for (let i = 0;; i++)

-

B) for (let i = 0, i < 5, i++)

-

-

C) for (i = 0; i < 5; i++)

D) for (i == 0; i < 5; i++) 13. How can you skip the current iteration in a for loop? Ans: A

-

A) continue

;

-

B) break;

-

C) return;

-

D) exit; 14.

How can you stop the execution of a for loop before it completes all iterations?

Ans: C

-

A) continue;

-

B) stop;

-

C) break;

-

D) exit;

15. What happens if the increment is missing in the for loop? Ans: A

-

A) Infinite loop

-

B) Syntax error

-

C) Loop runs once

-

-

D) No iteration occurs 16. What will be the output?

Ans: B

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

-

A) 0, 1, 2, 3, 4

-

B) 0, 2, 4

C) 0, 2 -

D) 2, 4 17. What will happen?

Ans: A

```
for (let i = 0; i < 3; i++) for  
(let j = 0; j < 2; j++)  
  console.log(i + j);
```

-

A) 0, 1, 1, 2, 2,

2

- B) 0, 1, 1, 2, 2, 3,

6

-

6

C) 0, 1, 1, 2, 2, 3, 3,

7

- D) 0, 1, 2, 3,

9

18. What will the following loop output?

Ans: A

```
for (let i = 0; i <= 10; i++) {  
  if (i === 5) break;  
  console.log(i);  
}
```

-

A) 0, 1, 2, 3, 4

-

B) 0, 1, 2, 3, 4, 5

-

-

C) 0, 1, 2, 3, 4, 5, 6

-

D) 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

19. What will the following code do?

Ans: A

```
for (let i = 1; i <= 10; i *= 2) { console.log(i);  
}
```

-

A) 1, 2, 4, 8

-

B) 1, 3, 5, 7, 9

-

C) 2, 4, 8

D) 1, 2, 3, 4 20. What will this for loop do?

Ans: A

```
for (let i = 10; i >= 0; i -= 3) { console.log(i);  
}
```

-

A) 10, 7, 4, 1

-

B) 10, 8, 6, 4

-

C) 10, 9, 8, 7

-

D) Error

Advanced Level:

21. How many times will the following loop run?

Ans: D

```
for (let i = 0; i !== 10; i += 3) { console.log(i);  
}
```

-

-

A) 4

-

B) 5

-

C) 6

-

D) Infinite 22. What will this loop print?

Ans: C

```
for (let i = 0; i < 3; i++) {  
  if (i % 2 === 0) continue;  
  console.log(i);  
}
```

-

A) 1, 2

-

B) 0, 2

-

C) 1

-

D) 0, 1, 2

23. Can the for loop header be empty? Ans: A

```
for (;;) {  
    // some code  
}
```

-

A) Yes

-

B) No 24. How can the following code be corrected? Ans: E

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

-

A) Add a semicolon after i++.

-

B) Remove let.

-

C) Add a comma between statements.

-

D) Add parentheses around i++.

E) Add a semi colon before i++.

25. What is the output? Ans: A

```
for (let i = 0; i <= 3; i++, console.log(i));
```

-

A) 1, 2, 3, 4

-

B) 0, 1, 2, 3, 4

-

C) 0, 1, 2, 3

-

D) 1, 2, 3

26. What will be the final value of i in this code?

Ans: B

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

-

A) 4

-

B) 5

-

C) 6

-

D) Undefined 27. What will happen in this loop?

Ans: A

```
for (let i = 0; i < 10; i = i + 3) { console.log(i); }
```

-

A) 0, 3, 6, 9

-

B) 1, 4, 7, 10

-

C) Infinite loop

-

D) Syntax error 28. How many times will this loop

run?

Ans: A

```
for (let i = 5; i <= 10; i += 2) {}
```

-

A) 3

-

B) 4

-

C) 5

-

D) Infinite 29. What will the following code print?

Ans: C

```
for (let i = 0; i < 10; i++) {  if
(i % 3 === 0) {
  console.log(i);
}
}
```

-

A) 1, 2, 3, 6, 9

-

B) 3, 6, 9

-

C) 0, 3, 6, 9

-

D) 0, 2, 4, 6

30. What happens when the loop has no initialization? Ans: D

```
for (; i < 5; i++) {
  console.log(i);
}
```

-

A) Error

-

B) Infinite loop

-

C) 0, 1, 2, 3, 4

-

D) Depends on the scope of i 31. What will the following code do? Ans: A

```
for (let i = 1; i < 20; i *= 3) {  console.log(i);
}
```

-

A) 1, 3, 9

-

B) 1, 2, 4, 8

-

C) 1, 3, 6, 9

-

D) Infinite loop

32. How does the for loop differ from the while loop in terms of syntax? Ans:A

-

A) Initialization happens outside the loop in while.

-

B) while loop is more optimized.

-

C) for loop doesn't require a condition.

-

D) while loop can't be nested.

33. What will happen if there is no update statement in the for loop? Ans: B

-

A) Loop will run once.

-

B) Infinite loop.

-

C) Loop won't run at all.

-

D) Syntax error.

34. How many times does this loop run? Ans: D

```
for (let i = 0; i++ < 5;) {}
```

-

A) 4

-

B) 5

-

C) 6

-

D) Infinite 35. What is the result of this code?

Ans: B

```
for (let i = 5; i; i--) {  
  console.log(i);  
}
```

-

A) 4, 3, 2, 1

-

B) 5, 4, 3, 2, 1

-

C) 4, 3, 2, 1, 0

-

D) Infinite loop

36. What will the following loop print?

Ans: A

```
for (let i = 1; i <= 3; i++) {  
  for (let j = 1; j <= 2; j++) {  
    console.log(i, j);  
  }  
}
```

-

A) 1, 1; 1, 2; 2, 1; 2, 2; 3, 1; 3, 2

-

B) 1, 2; 2, 2; 3, 2

-

C) 1, 2; 2, 1; 3, 2

-

D) Syntax error

37. How many times will the inner loop run in this code?

Ans:

```
for (let i = 0; i < 4; i++) {  
  for (let j = 0; j < 3; j++) {  
    console.log(i, j);  
  }  
}
```

-

A) 4

-

B) 7

-

C) 12

-

D) 10 38. How many total iterations will both loops

run?

Ans: C

```
for (let i = 1; i <= 5; i++) {
  for (let j = 1; j <= i; j++) {
    console.log(i, j);
  }
}
```

-

A) 15

-

B) 10

-

C) 12

-

D) 20 39. What is printed by the following loop?

Ans: A

```
for (let i = 2; i <= 4; i++) {
  for (let j = 1; j < i; j++) {
    console.log(i, j);
  }
}
```

-

A) 2, 1; 3, 1; 3, 2; 4, 1; 4, 2; 4, 3

-

B) 2, 1; 3, 2; 4, 3

-

C) 2, 2; 3, 3; 4, 4

-

D) 1, 2; 2, 3

40. How many iterations will this loop combination execute? Ans: B

```
for (let i = 0; i < 3; i++) { for
  (let j = i; j < 3; j++) {
    console.log(i, j);
  }
}
```

-

A) 9

-

B) 6

-

C) 5

-

D) 3 41. What is the final output of this nested loop?

Ans:

```
let result = ''; for (let i = 0; i
< 3; i++) { for (let j = 0; j
< 3; j++) { result += i +
'' + j + ' ';
}
}
console.log(result);
```

-

A) "000 011 022"

-

B) "00 01 02 10 11 12 20 21 22"

-

C) "012 012 012"

-

D) Infinite loop 42. What does this code output?

Ans: A

```
for (let i = 1; i <= 2; i++) {
  for (let j = 1; j <= 3; j++) {
    if (i + j === 4) {
      console.log(i, j);
    }
  }
}
```

-

A) 1, 3; 2, 2

-

B) 1, 1; 2, 3

-

C) 2, 1; 1, 2

-

D) 1, 2; 2, 1

43. What will happen when the following nested loop is executed? Ans: A

```
for (let i = 0; i < 3; i++) { for
  (let j = 0; j < 2; j++) { if
    (j === 1) break;
    console.log(i, j);
  }
}
```

-

A) 0, 0; 1, 0; 2, 0

-

B) 0, 1; 1, 1; 2, 1

-

C) 0, 1; 1, 0

-

D) Infinite loop

44. What does this loop combination output?

Ans: B

```
for (let i = 1; i <= 3; i++) {
  for (let j = 1; j <= 2; j++) {
    if (i === 2) continue;
    console.log(i, j);
  }
}
```

-

A) 1, 1; 1, 2; 2, 1; 2, 2; 3, 1; 3, 2

-

B) 1, 1; 1, 2; 3, 1; 3, 2

-

C) 1, 2; 2, 1; 3, 2

-

D) Infinite loop

45. What will the output be for this nested loop setup?

Ans: A

```
let output = ''; for (let i = 1; i
  <= 3; i++) { for (let j = i; j
  <= 3; j++) { output += i +
  ' ' + j + ' ';
  }
}
console.log(output);
```

-

A) 11 12 13 22 23 33

-

B) "12 23 34"

-

C) "12 13 23"

-

D) Infinite loop

46. How many times will the inner loop execute in total? Ans: A

```
for (let i = 0; i < 4; i++) {   for
  (let j = i; j >= 0; j--) {
    console.log(i, j);
  }
}
```

-

A) 10

-

B) 5

-

C) 4

-

D) 8

47. What does this code print? Ans: C

```
let counter = 0; for (let i = 0; i
  < 4; i++) {   for (let j = 0; j
  < 2; j++) {    counter++;
  }
}
console.log(counter);
```

-

A) 2

-

B) 4

-

C) 8

-

D) 6 48. What is printed by this code?

Ans: C

```

for (let i = 1; i <= 2; i++) {
  for (let j = 1; j <= 2; j++) {
    if (i === j) break;
    console.log(i, j);
  }
}

```

-

A) 1, 2; 2, 1

-

B) 1, 1; 2, 2

-

C) 2, 1

-

D) Infinite loop

49. What happens in the following nested loop?

Ans: E

```

for (let i = 3; i > 0; i--) {
  for (let j = 3; j > i; j--) {
    console.log(i, j);
  }
}

```

-

A) 3, 2; 2, 1; 1, 0

-

B) 2, 3; 1, 2; 1, 3

-

C) 1, 2; 1, 3

-

D) 3, 2; 3, 1

E) 2 3 1 3 1 2

50. How many total times does the loop run in this code?

Ans: B

```

for (let i = 0; i < 3; i++) {
  for (let j = 0; j < 3; j++) {
    if (i === 2) break;
    console.log(i, j);
  }
}

```

-

A) 9

- B) 6
 - C) 4
 - D) 5
-