State the difference between while loop, for loop and do while loop.

While loop: The condition is evaluated **before** the loop runs. If the condition is false from the start, the loop may not execute at all.

```
let count = 0;
while (count < 5) {
  console.log(count);
  count++;
}</pre>
```

For loop: Useful when you know how many times you want to iterate or when iterating over a range or collection.

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

Do-While loop: The loop runs **at least once**, regardless of the condition because the check happens after the first iteration.

```
let count = 0;
do {
      console.log(count);
      count++;
    } while (count < 5);</pre>
```

What is the difference between break and continue.

break:

- · Exits the loop entirely.
- The loop stops executing as soon as break is encountered.
- Used when you want to terminate the loop based on a condition.

Example:

```
for (let i = 0; i < 10; i++) {
   if (i === 5) {
      break; // Exits the loop when i is 5
   }
   console.log(i);
}</pre>
```

continue:

- Skips the current iteration and proceeds with the next one.
- The loop does not stop but skips the remaining code for the current iteration.
- Used when you want to skip certain iterations based on a condition.

Example

```
for (let i = 0; i < 10; i++) {
  if (i === 5) {
    continue; // Skips the current iteration when i is 5
  }
  console.log(i);
}</pre>
```