Prompts

1. Select **five methods** that can be used on an Array and describe the following for each:

   1. what the method signature is
   2. what the method does
   3. why would this method be useful (how could you use it)?

      a. Array Length () – arr.length ()
         Returns the number of elements in an array
      b. Array Push () – arr.push()
         Adds elements to end of array & returns its length
      c. Array toString() – arr.toString()
         Returns the string representation of an array
      d. Array Slice () – arr.slice()
         Returns a shallow copy of a portion of an array
      e. Array Splice() – arr.splice()
         Returns an array by changing its elements in place

2. What is the difference between == and ===?
   == is used for comparing two variables, but it ignores the datatype of variable whereas === is used for comparing two variables, but this operator also checks datatype and compares two values

3. What is a closure and how does it work? Provide an example.

Closures are functions that have access to the variables that are present in their scope chain even if the outer function ceases to exist.
To understand this in more detail, let's understand what a scope chain is. Scope chain refers to the fact that parent scope does not have access to the variables inside its children's scope, but the children's scope does have access to the variables present in its parent scopes.

Example:

```
function greeting(message) {
  return function(name){
     return message + ' ' + name;
  }
}
let sayHi = greeting('Hi');
let sayHello = greeting('Hello');
```

```
console.log(sayHi('John')); // Hi John
console.log(sayHello('John')); // Hello John
```

4. What is your favorite thing you learned this week?

Array methods and objects! Felt the change in course and how involved JavaSript can get. I hope with a few more practices and example I'll get comfortable with using the different methods of arrays