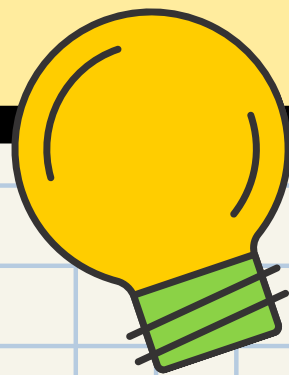
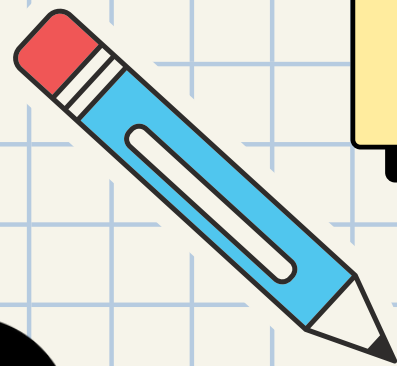
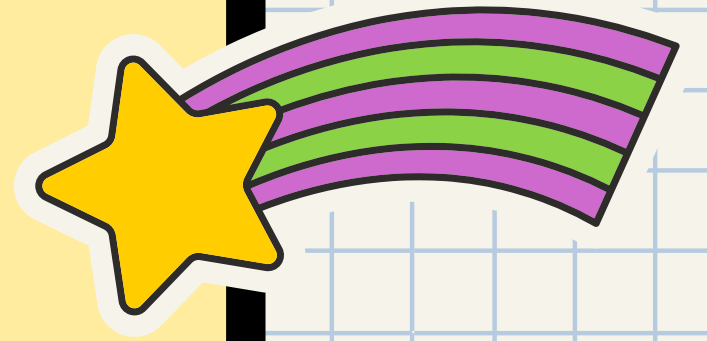
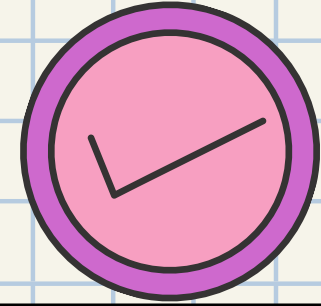


# FUNCTIONS



# Functions in Javascript

A function is a block of code that performs a specific task. Dividing a complex problem into smaller chunks makes your program easy to understand and reusable. The syntax of function is as follows:

```
function name(parameter1, parameter2, parameter3) {  
    // code to be executed  
    return something  
}
```



# Function Expression

A function expression is very similar to and has almost the same syntax as a function declaration. The **main difference** between a function expression and a function declaration is the function name, which can be omitted in function expressions to create anonymous functions.

```
const variable = function (parameter1, parameter2, parameter3) {  
  // code to be executed  
  return something  
}
```



# Nested Function

You may nest a function within another function. The nested (inner) function is private to its containing (outer) function.

```
function addSquares(a, b) {  
  function square(x) {  
    return x * x;  
  }  
  return square(a) + square(b);  
}  
  
const a = addSquares(2, 3); // returns 13  
const b = addSquares(3, 4); // returns 25
```

