```
1. Declaring and Invoking Functions:
    - Function is a named subprogram designed to perform a particular task.
    Functions are executed when they are called. This is called invoking a func.
    Values can be passed into functions and used within the function.
    - Functions can have parameters
    - Functions always return a value(custom or default)
    - Pure function - a function that always has the same result, has no side
effects

    function printStars(count){
        console.log('*'.repeat(count));
    }
    1.1. Declaring:
        - Functional Declaration(recommended way)
        function printText(text){
            console.log(text);
        }
        - Functional Expression(useful in functional programming)
        let printText = function(text){
            console.log(text);
        }

        [1,2,3,4].map((a) => printAnotherText(a));
        [(1,2,3,4)].map(printAnotherText);

    1.2. Invoking a Function:
        - Invocation from another function:
        function printDocument(){
            printLavel();
            printContent();
        }
        - Self-invocation(recursion):
        function countDown(x){
            console.log(x);
            if (x>0) {countDown(x-1);}
        }

    1.3. Returning Values:
    - The return keyword immediately stops the function's execution
    - Returns the specified value to the caller

2. Nested Functions
3. Value vs Reference Type
4. First-class Functions:
    - First-class functions are treated like any other variable:
    passed as an argument, returned by another function, assigned as a value to a
variable
5. Arrow Functions:
    - Special shorthand syntax for Declaration
    - They operate in the context of their enclosing scope
    - Useful in functional programming

    let increment = x => x+1;
    console.log(increment(5));

    let increment = function(x){
        return x+1;
    }
    let sum = (a, b) => a+b;
    console.log(sum(5, 6));
```

6. Naming and Best Practices:
    - meaningful names
    - camelCase
    - names should answer the question what does the function do?
    - each function should perform a single, well-defined task