1. **Functions and Return Values**

1. q(6) prints : y is 3

returns : 8

2.h(8) returns: 14

3.f(12) prints : Hallo world

returns: 62

1. **Syntax**

var hallo = 'foo'; // missing ' ' or foo undefined

function sayHello() { // missing closing bracket

console.log(‘Hallo World'); // missing '

}

function countThe7 (array) {

var numSevens = 0;

for(var i=0; i<array.lenth; i = i++) {

if( array[i] = 7 ) {

theSevens++; // undefined/ here maybe numSevens

}

}

return numSeven;

}

sayHello();

console.log countThe7( array = [1,4,7,3,7,1,7,0,-1,7] );

var fruits = [‘Apple’, ‘Ba na na’, ‘Mango’; ‘Grapefruit’]; // missing ‘ / , instead of ;

fruits[‘0’] = ‘Lemon’; // don’t need the ‘ ’

fruits.Banana = ‘Melon’; // Banana is not a parameter in fruits

for(var i=0; i<10; i++) {

fruits[i] = ‘Pickle’;

}

var ‘fullrandom’ = { // don’t need the ‘ ’

‘123’: 456; // missing ‘ ’

‘hallo’: ‘world’,

‘cars’: [ ‘bmw’; ‘porsche’; ‘tesla’, ‘peugeot’ ]; // missing two ‘ ’ / Instead of ; we need ,

}

fullrandom.123 = 789;

var key = ‘halloooooo’;

fullrandom[key] = (‘woooooooorld’);; // key is not parameter index in fullrandom / fullrandom is not an array we can’t use [ ] / there is two ;

1. **Arrays**
2. **Arrays and Nested Loops**

In the JS file

Q: What is a variable? Explain with 5 data types.

A: the variable is data container. We have 5 data types:

* String: contains letters or numbers or symbols ( abc…. , 123… , !”§$%.....)
* Number: contains just numbers ( -5 , -7 , 0 , 10 ,132 …..)
* Boolean: can just have to values ( true or false)
* Undefined: declared variable has not yet been assigned a value
* Null: no value

Q: What is an array and how is it different from a variable?

A: array is also data container but it has more than one value in the same time

Q: What is an object and how is it different from an array?

A: an object is like an array . have more than one value . but the different here . every value has id

Q: What are conditional statements and what are they used for?

A: conditional statements perform different actions in different conditions.

If the condition is true do an action , If the condition is false do an other action

Q: What is a for loop and what is the difference to a while-loop?

A: for loop is a conditional statements. It can do itself several times. After performing the actions

Q: What is a function?

A: a function is a container for the codes. We can use it more than one time.

Q: What is a parameter?

A: ………….

Q: What is a function's return value?

A: it´s the value . which returns when we call the function