8	
9	
10	0
1	
2.	. What is the difference between a method and function?
->	A function is a set of statements meant to do a specific task, it is defined with
k	eyword 'function' followed by
th	ne a name and an optional arguments.
->	A method is a property of an object that contains a function.
3.	. What does 'this' refer to when used in a Java method?
->	"this" in java refers to the current object in a method or constructor. usually
W	re use "this" key word to
di	ifferentiate between the class attributes and parameters with the same name in
th	ne class.
4.	. What does 'this' refer to when used in a JavaScript method?
->	In a method "this" key word refers to the owner of the method.
5.	. What does 'this' refer to when used in a JavaScript constructor function?
->	In a function "this" refers to the global Object.
6.	Assume object x is the prototype for object y in JavaScript. Object x has a
m	nethod f() containing keyword 'this'.
W	Then f is called by x.f(), what does 'this' refer to?

-> free variable is a variable that is not declared inside the method or as an

1, The output will be ->

-> 'this' will be referring to x;

7. What is a free variable in JavaScript?

10

8

argument for a method but

we still make use of the variable inside our method, then that is called a free variable.

8. Create an object that has properties with name = "fred" and major="music" and a property that is a function

that takes 2 numbers and returns the smallest of the two, or the square of the two if they are equal.

```
-> var obj = {
name: 'fred',
major= 'music',
property: function(a,b){
if(a < b){
return a;
}else if(a > b){
return b;
}else return {
squareOfa: a*a;
squaareOfb: b*b;
}
};
```

9. Write JavaScript code for creating three Employee objects using the "new" keyword and a constructor function.

Employee objects have the following fields: name, salary, position.

```
-> function Employee (name,salary,position){
this.name = name;
this.salary = salary;
this.position = position;
}
var emp1 = new Employee('Jo',120000,'full stack developer');
var emp2 = new Employee('Messi',150000,'manager');
```

```
var emp3 = new Employee('Dere',120000,'full stack developer');
```

10. Write a JavaScript function that takes any number of input arguments and returns the product of the

arguments.
-> function product(){
let accum =1;
for(let i =0; i< arguments.length; i++){
accum *= arguments[i];
}
return accum;</pre>

11. Write an arrow function that returns the maximum of its three input arguments.

```
-> var max = (a,b,c) =>{
let max = a;
if(b > max){
max = b;
}
if(c > max){
max = c;
}
return max;
}
console.log(max(1,2,3)); // 3
```