**Scope exercise solutions**

1.The Output is

10, 8 , 8, 9, 10, 1

2.

**Functions:** A function is a block of code written to perform some specific set of tasks. The function is executed when something calls/invokes it.

**Methods:** A JavaScript method is a property of an object that contains a function definition. Methods are functions stored as object properties

3. “this” in java refers to the current object in a method or constructor.

4.’this’ keyword in javascript refers to the particular object.

* In a method, this refers to the owner object.
* Alone, this refers to the global object.
* In a function, this refers to the global object.
* In a function, in strict mode, this is undefined.
* In an event, this refers to the element that received the event.

5.refers to the object that will be created when that constructor is instantiated.

6. keyword refers to the object it belongs to(X).

7.Free variables are variables that are neither locally declared nor passed as parameter

8. var obj = {

           name : "Fred",

           major:"Music",

           property:function(a, b){

               if(a==b){

                   return a\*a;

               }else {

                   return Math.min(a,b);

               }

           }

       }

.

9.

9

function employee(name, salary,position){

        this.name = name;

        this.salary = salary;

        this.position = position;

    }

    var nathy = new employee("Lulit", 5000, "React developer");

    var amha = new employee("Amha" 4000, "Backend Developer");

    var lulit = new employee ("Natty", 3000, "Java  Developer");

10.

     function product (... args){

         let p =1;

         for(let i=0; i<args.length; i++){

             p \*= args[i];

         }

            return p;

     }

11.

  var maximum = (x,y,z) =>   Math.max(x,y,z);