

Part 1

1)script.js

```
alert("I'm JavaScript!");  
alert('Hello') // this line is not having semicolon  
alert(`Wor  
ld`)  
alert(3 +  
1  
+ 2); // this is multiple line code and its working
```

Output:

I'm Javascript

Hello

Wor

ld

6

2)script.js

```
let admin=9, fname=10.5;  
fname = "Guvi";  
lname = "geek"  
admin = fname+lname;  
alert( admin );
```

Output:

Guvigeek

3)script.js

```
let a = prompt("First number?");  
let b = prompt("Second number?");  
alert(a + b);
```

Output

First number?3

Second number?2

32

4)script.js

```
let a=prompt("first Number");  
let b=prompt("second Number");  
alert(Number(a)+Number(b));
```

Output:

first Number 3

second Number 2

5

5)script.js

```
var a="2">"12";  
if(a)  
console.log("code is blasted");  
else
```

```
console.log("Diffused");
```

Output:

Code is blasted

First digit of 2 is greater than first digit of 12, so 'a' is stored with boolean value of true and get diffused to be print the assignment side of 'a' could be replaced as "3">"12", and this makes 'a' to get stored with boolean value as false.

6)script.js

```
let a= prompt("enter any number");
if(a)
console.log("OMG it works for any number including 0");
else
console.log("success");
```

Output:

```
enter any number false
OMG it works for any number including 0
enter any number 0
OMG it works for any number including 0
enter any number (press enter key for sending null or making 'a' to undefined)
success
```

7)script.js

```
let message;
if(Boolean( null || 2 || undefined))
message="Welcome Boss";
else
message="go away";
```

Output

Welcome Boss

8)script.js

```
let message;
let run1=2;
let run2 = undefined;
if(??? && " " || undefined)
message = "Go Away";
else
message = "welcome";
```

Output and explanation

if ??? is replaced with run1 then output will be Go Away as " " string parses in 'if' statement and while ??? is replaced with run2 then Welcome gets printed as 'if' condition gets undefined being parsed

9)script.js

```
let lemein='0';
let lemeout=0;
let msg="";
if(lemein)
msg+="hi";
if(lemeout)
msg+="hello";
```

Output:

hi

Explanation "0" in if condition gets considered as string which is non zero or true according to 'if' condition and when passing 0 in if statement it gets identified as false.

Part 2

```
code.js
var num = [[1,2,3,4,5],[6,7,8,9,10,11]];
var s=0;
for(i=0;i<num.length;i++)
{
    var n=num[i];
    for(j=0;j<n.length;j++)
        s+=n[j];
}
console.log(s);
```

Output

66

Part 3

code

```
var array
=[["firstname","vasanth"],["lastname","Raje"],["age",24],["role","JSWizard"]],
[["firstname","Sri"],["lastname","Devi"],["age",28],["role","Coder"]];
var final=[];
while(array.length!=0)
{
    var outer_remove = array.shift();
    var new_object={};
    while(outer_remove.length!=0)
    {
        var inner_remove = outer_remove.shift()
        var key = inner_remove[0];
        var value =inner_remove[1];
        new_object[key]=value
    }
    final.push(new_object);
}
console.log(final);
```

Output

```
[
  { firstname: 'vasanth', lastname: 'Raje', age: 24, role: 'JSWizard' },
  { firstname: 'Sri', lastname: 'Devi', age: 28, role: 'Coder' }
]
```