**Exercise 1**

<html>

<body>

<script>

for(var i=1; i<=7; i++){

var str='';

for(var j=1; j<=i; j++){

str+='$';

}

document.write(str+"<br>");

}

</script>

</body>

</html>

The motivation of “document.write” is to insert the output expression in HTML, therefore, use "<br>". For non-html based expression, use “\n”.

console.log(str) also works;

**Exercise 2**

str = "I want to graduate";

array = str.split("").reverse().join("") ;

document.write(array);

**Exercise 3**

function find(str) {

var arr = str.split(" ");

var max=0;

var x=0;

var t=0;

for (var i = 0; i < arr.length; i++) {

t=arr[i].length;

if(t>max){

max= t;

x=arr[i];

console.log(x);

}

}

return x;

}

document.write(find("While when and where to recharge are sensitive."));

**Exercise 4**

function print (str, num)

{

var astr=str;

if(num<0) {

return "";

}

else{

for(var i=0;i<num-1;i++){

str+=astr;

}

return str;

}

}

document.write(print("hahaha",3));