LAB 2

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Activity 1:

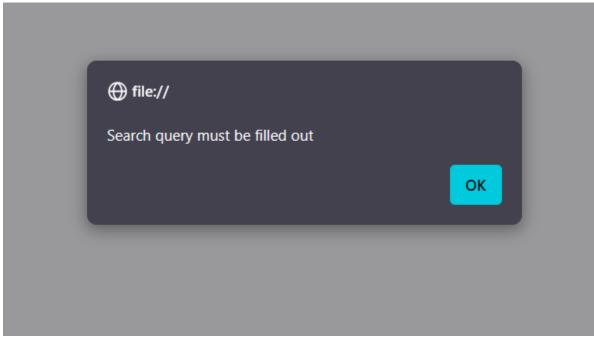
Output:

Google Search Wrapper

Search Query	bazinga		Google Search
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Activity 2:

Output:



```
function validateSearchForm() {
    let x = document.getElementById('searchText').value;
    if (x == "" || x == " " ) {
        alert("Search query must be filled out");
        return false;
    }
    else{
        return true;
    }
}
```

Exercise 1:

code:

let x = document.getElementById('searchText').value;

Activity 3:

Output:

Simple Calculator

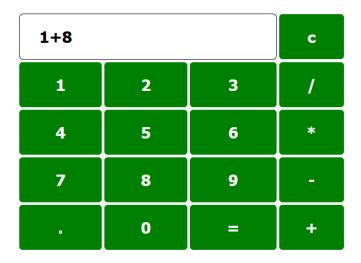


```
function calculate(){
    let op1 = Number(document.forms["simpleCalculator"]["operand1"].value);
    let oper = document.forms["simpleCalculator"]["operator"].value;
    let op2 = Number(document.forms["simpleCalculator"]["operand2"].value);
    let result = 0;
    if(isNaN(op1) || isNaN(op2)){
       alert("Please enter valid numbers for operands");
    } else if(op1 == "" || op2 == ""){
        alert("Please enter a Value for the operands");
        switch(oper){
               result = op1 + op2;
               break;
               result = op1 - op2;
               result = op1 * op2;
               break;
                if(op2 == 0){
                   alert("Division by zero is not allowed");
                   return;
               result = op1 / op2;
               alert("Invalid operator");
        document.forms["simpleCalculator"]["result"].value = result;
```

Exercise 2:

Output:

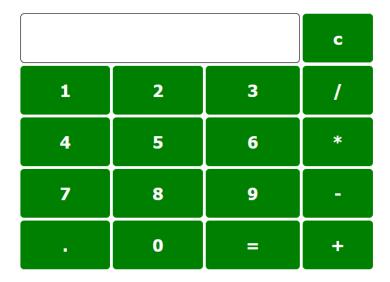
Professional JS Calculator



Activity 4:

Output:

Professional JS Calculator



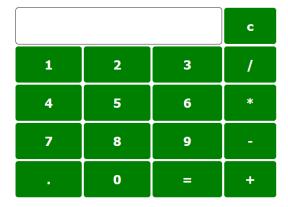
```
function dis(val, formName) {
        document.forms[formName]["result"].value += val;
    function clr(formName) {
        document.forms[formName]["result"].value = "";
8
    function solve(formName) {
9
        let x = document.forms[formName]["result"].value;
60
        let y = math.evaluate(x);
3
        document.forms[formName]["result"].value = y ;
    function delChar(formName) {
6
        const form = document.forms[formName];
        const resultBox = form.result;
8
        resultBox.value = resultBox.value.slice(0, -1);
```

```
.key {
   width: 100%;
   padding: 20px 40px;
   background-color: green;
   color: white;
   font-size: 24px;
   font-weight: bold;
   border: none;
   border-radius: 5px;
.result {
   padding: 20px 30px;
   font-size: 24px;
   font-weight: bold;
   border: 1px solid black;
   border-radius: 5px;
```

Activity 5:

Output:

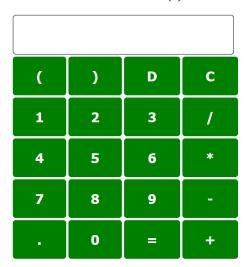
Professional JS Calculator (2)



Exercise 3:

Output:

Professional JS Calculator (3)



```
function delChar(formName) {
   const form = document.forms[formName];
   const resultBox = form.result;
   resultBox.value = resultBox.value.slice(0, -1);
}
```