PART 1

// 1. Write a multi-line comment with your name in one line and your student ID in another line.

console.log('Sapan Shah\n Student ID: 403296592');

// 2. Write an expression that calculates the area of a triangle with base and height defined as variables with values of your choice. (Ex. b=3, h=5)

const b =3;

const h =5;

console.log(0.5 * b * h);

/* 4. Write a single expression that displays the following message:

The sum of 5 and 3 is: 8

Specify 8 results from the arithmetic expression 5 + 3. */

const a = 5;

const b= 3;

console.log('The sum of 5 and 3 is:' + (a +b));

/* 5.Write a single expression that displays the following message:

My age is 33 years old.

Specify your age as a variable.*/

let a = 44;

console.log('My age is ' + a + ' years old.');

/* 6. Write a single expression that displays the following message:

In JavaScript, we use the backslash (\\) to escape special characters.*/

```javascript
console.log('In JavaScript, we use the backslash (\\) to escape special characters.');
```

/* 7.Write a single expression that displays the following message:

Einstein once said: "Life is like riding a bicycle. To keep your balance, you must keep moving."*/

```javascript
console.log('Einstein once said: "Life is like riding a bicycle. To keep your balance, you must keep moving."');
```

/* 8. Write an expression that takes two numbers defined as variables with values of your choice and evaluates whether the first number is greater or equal to the second. */

```javascript
let a = 7;
let b = 3;
if (a > b) {
console.log('a is greater than b')
} else {
console.log('a is NOT greater than b')
};
```

/* 9. Write an expression that evaluates whether two numeric values defined with values of your choice satisfy the following condition: the first number is greater than the second, and the second number is greater than 0. */

```javascript
let a = 9;
let b = 2;
```

```
let c1 = a > b;

let c2 = b > 0;

console.log(c1 && c2);
```

/* 10. Write an expression that evaluates whether two numeric values defined with values of your choice satisfy the following condition: both numbers are equal or the second number is less than 10. */

```
let a = 9;

let b = 2;

let c1 = a == b;

let c2 = b < 10;

console.log(c1 || c2);
```

PART 2 : JAVA SCRIPT FOR CALCULATOR:

```
//ADD
function add() {

  let operand1 = document.querySelector("#operand1").value;
  console.log(operand1);
  let operand2 = document.querySelector("#operand2").value;
  console.log(operand2);


  operand1 = parseInt(operand1);
  operand2 = parseInt(operand2);


  let result = operand1 + operand2;
```

```javascript
    document.querySelector("#result").value = result;
}
//SUBTRACT
function substract() {
let operand1 = document.querySelector("#operand1").value;
  let operand2 = document.querySelector("#operand2").value;


        operand1 = parseInt(operand1);
        operand2 = parseInt(operand2);


        result=operand1-operand2;
        document.querySelector("#result").value = result;
}
//MULTIPLY
function multiply() {

  let operand1 = document.querySelector("#operand1").value;
  console.log(operand1);
  let operand2 = document.querySelector("#operand2").value;
  console.log(operand2);

  operand1 = parseInt(operand1);
  operand2 = parseInt(operand2);

  let result = operand1 * operand2;

  document.querySelector("#result").value = result;
}
```

```
//DIVISION
function divide() {

  let operand1 = document.querySelector("#operand1").value;
  console.log(operand1);
  let operand2 = document.querySelector("#operand2").value;
  console.log(operand2);

  operand1 = parseInt(operand1);
  operand2 = parseInt(operand2);

  let result = operand1 / operand2;

  document.querySelector("#result").value = result;
}
// CLEAR INPUT FIELDS
function clearInput() {
        document.querySelector("#operand1").value = "";
        document.querySelector("#operand2").value = "";
  document.querySelector("#result").value = "";
}
```