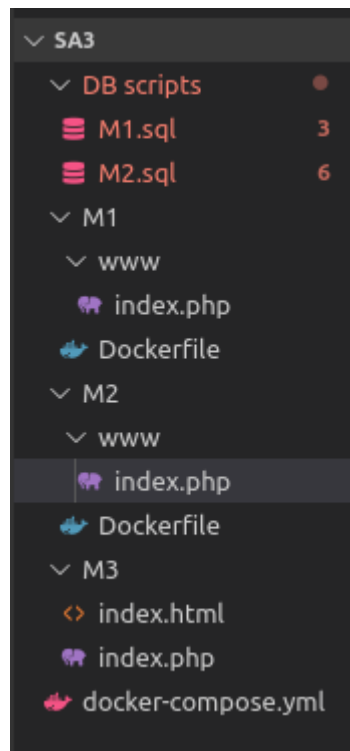


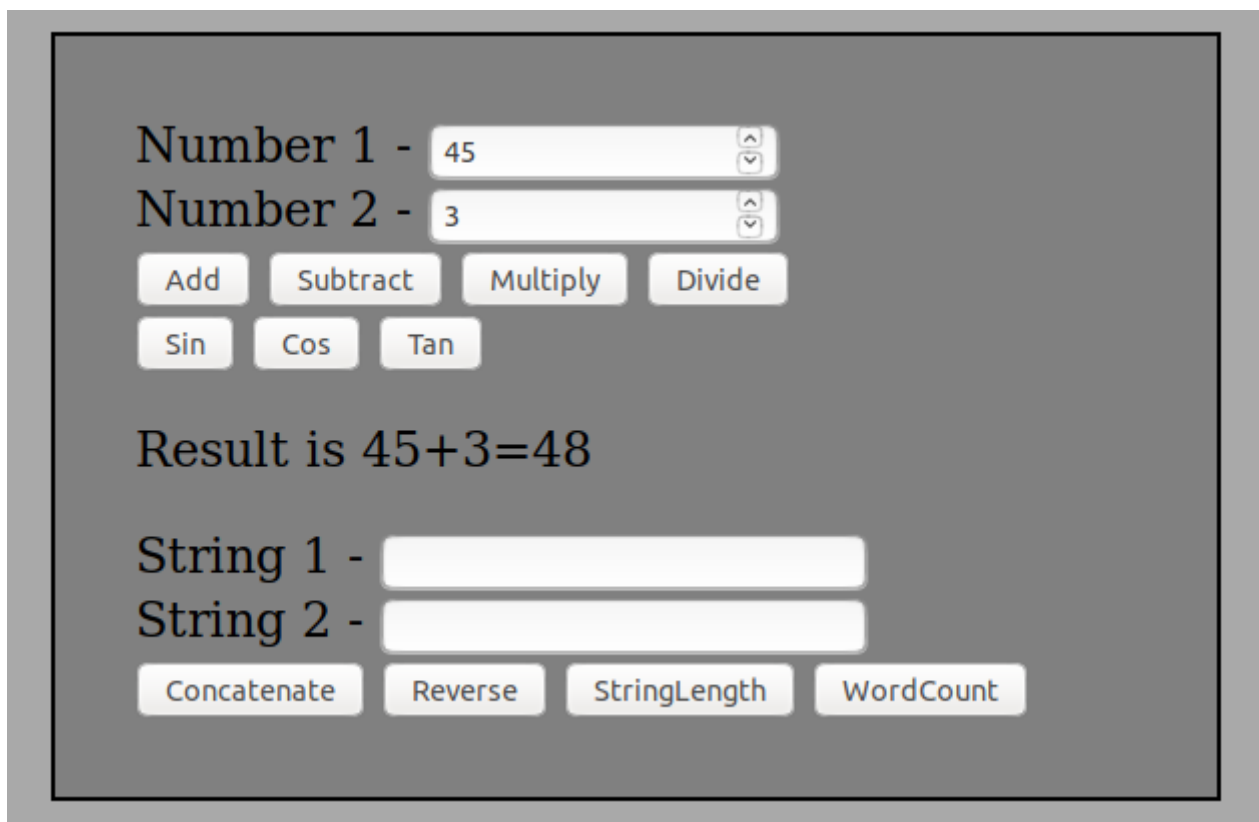
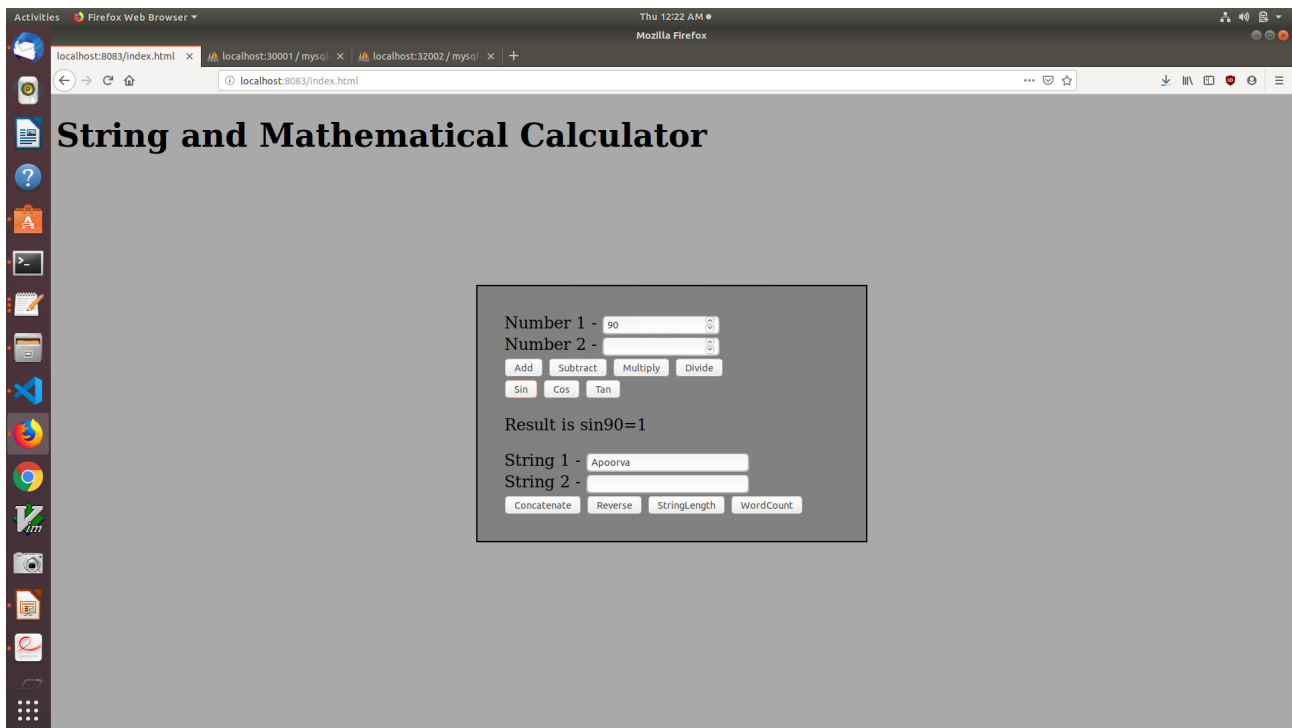
**Assignment 3**  
**(Part 1: Load Balancer)**  
**Submitted by : Apoorva Jain**  
**19111016**

- Site is running on M3 (index.html).
- When the client selects any operation, it sends AJAX request to index.php (load balancer) on the same machine M3 (Data along with an operator is sent).
- This way client is unaware of M1 and M2.
- Load Balancer then forwards request either to M1(mathematical operation) or M2(string operation) based on the type of operation selected .
- Then the server (1 or 2) computes the query, store the query and its result in its database and return the result to the client.
- Two different databases are created one for each server.
- M1.sql and M2.sql are imported inside PhpMyAdmin to create tables initially.
- M1 (index.php) and M2 (index.php) are rest apis which returns the response as JSON objects which are then echoed back to index.html (client) via index.php(M3).

Folder Structure



Screenshots ->



Number 1 -

Number 2 -

Add

Subtract

Multiply

Divide

Sin

Cos

Tan

Result is  $45/3=15$

String 1 -

String 2 -

Concatenate

Reverse

StringLength

WordCount

Number 1 -

Number 2 -

Add

Subtract

Multiply

Divide

Sin

Cos

Tan

Result is ApoorvaJain

String 1 -

String 2 -

Concatenate

Reverse

StringLength

WordCount

Number 1 -

Number 2 -

Add

Subtract

Multiply

Divide

Sin

Cos

Tan

Result is avroopA

String 1 -

String 2 -

Concatenate

Reverse

StringLength

WordCount

Options												
			id	num1	num2	operator	result		reg_date			
<input type="checkbox"/>		Edit		Copy		Delete	6	45	3	1	48	2019-10-02 18:22:37
<input type="checkbox"/>		Edit		Copy		Delete	7	45	3	2	42	2019-10-02 18:22:38
<input type="checkbox"/>		Edit		Copy		Delete	8	45	3	3	135	2019-10-02 18:22:40
<input type="checkbox"/>		Edit		Copy		Delete	9	45	3	4	15	2019-10-02 18:22:42
<input type="checkbox"/>		Edit		Copy		Delete	10	45	3	5	0.70710678118655	2019-10-02 18:22:43
<input type="checkbox"/>		Edit		Copy		Delete	11	45	3	6	0.70710678118655	2019-10-02 18:22:44
<input type="checkbox"/>		Edit		Copy		Delete	12	45	3	7	1	2019-10-02 18:22:45

+ Options

			id	string1	string2	operator	result	reg_date			
<input type="checkbox"/>		Edit		Copy		Delete	50	Apoorva Jain	1	ApoorvaJain	2019-10-02 18:39:56
<input type="checkbox"/>		Edit		Copy		Delete	51	Apoorva Jain	2	avroopA	2019-10-02 18:40:00
<input type="checkbox"/>		Edit		Copy		Delete	52	Apoorva Jain	3	7	2019-10-02 18:40:02
<input type="checkbox"/>		Edit		Copy		Delete	53	Apoorva Jain	4	1	2019-10-02 18:40:04