

MOBILE PROGRAMMING (CSE 4027)

Lab -2 (Jquery)

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Question 1. Develop and demonstrate a HTML file that includes JQuery script for the following problems:

1 a) Input: A number n obtained using prompt

Output: The first n Fibonacci numbers

1 b) Input: A number n obtained using prompt

Output: A table of numbers from 1 to n and their squares using alert

Sol.

1 a)

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width,
initial-scale=1.0">

    <meta http-equiv="X-UA-Compatible" content="ie=edge">

    <title>Document</title>

</head>
```

```
<body>

  <h1>Printing values till nth fibonacci numbers</h1>

</body>

<script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

<script>

  memo = {};

  function fib(n) {

    if(n <= 1) return n;

    if(memo[n] !== undefined) {

      return memo[n];

    }

    else{

      return memo[n] = fib(n-1) + fib(n-2);

    }

  }

  $(document).ready(() => {

    let num = prompt('Please enter the value of n');

    num = Number(num);
```

```
let res = '';

for(let i = 0; i <=num; i++){

    res += String(fib(i));

    res += ' ';

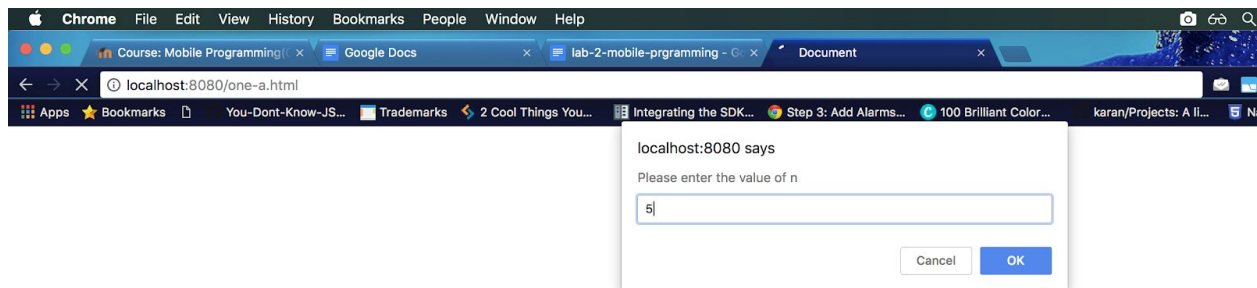
}

alert(`The values till ${num}th fibonacci number is: ${res}`);

});

</script>

</html>
```



1b)

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width,
initial-scale=1.0">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<title>Document</title>

</head>

<body>


</body>

<script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.min
.js"></script>

<script>

    ($ (document) ).ready ( () => {

        let num = prompt ('Enter the value of n: ');

        num = Number (num) ;

        for (let i = 1; i <= num; i++) {

            alert (i*i) ;

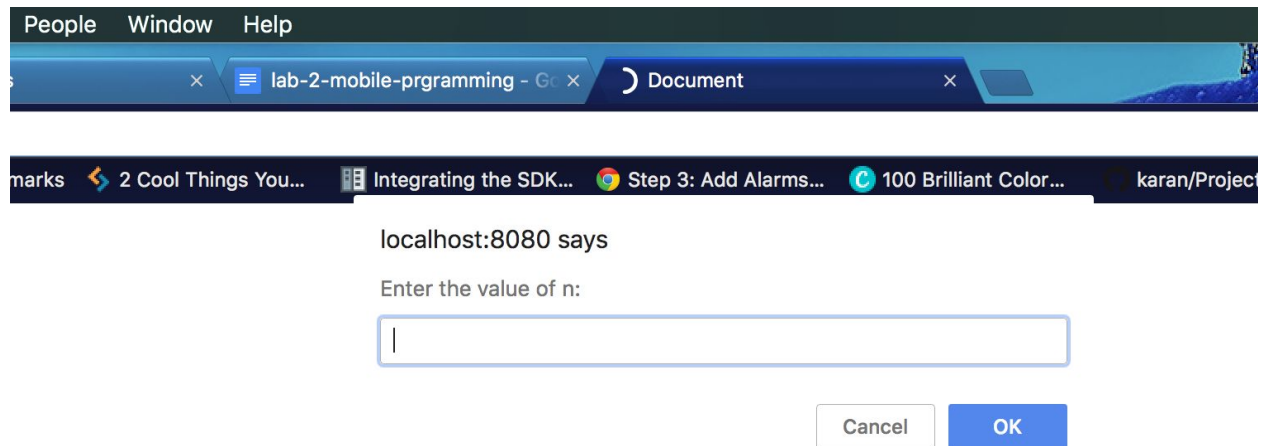
        }

    }) () ;

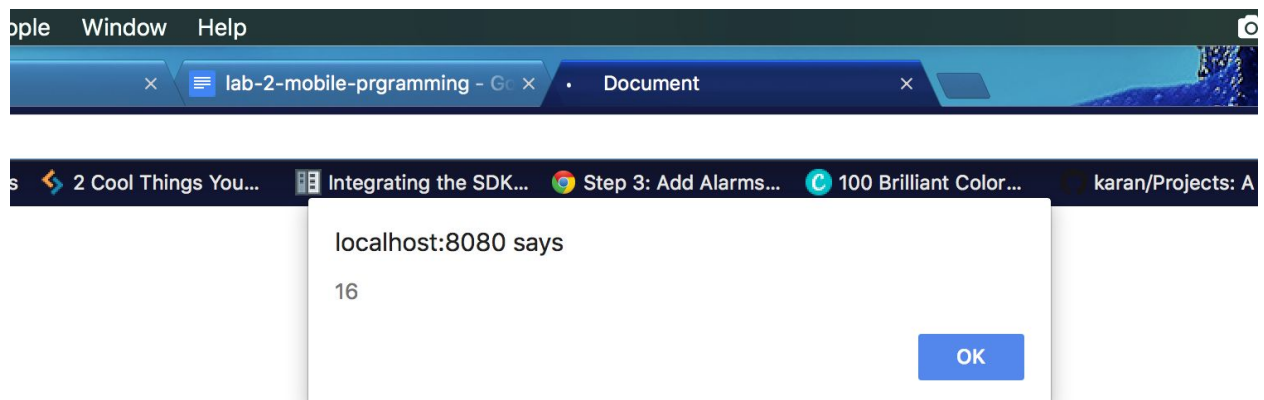
</script>

</html>
```

Screenshots:



For $n = 4$ it makes 4 alerts, each showing the square of numbers till n .



2. 2. Develop and demonstrate, using JQuery script, a HTML document that collects the Reg Number ([the valid format is: Two digit number is last two digits of the year followed by Program(MCA,CSE/ECE/MS) and four digits (unique number each digit from 1 to 9)] no embedded spaces allowed of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected.

Sol.

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Question-2</title>

</head>

<body>

    <form action="#" id="checkForm">

        <input type="text" id="regno" />

        <button type="submit">Submit</button>

    </form>

</body>

<script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.min
.js"></script>
```

```
<script>
```

```
    $('#checkForm').on('submit', function(evt) {

        evt.preventDefault();

        let regno = $('#regno').val();

        let year = regno.slice(0,2);

        let branch = regno.slice(2,5);

        try{

            if(year[0] >= '1' && year[0] <= '9' && year[1] >= '1' &&
year[1] <= '9'){

                console.log(branch);x

                if(branch[0] == 'M' && branch[1] == 'S' && branch[2]
>= '1' && branch[2] <= '9'){

                    alert('Valid regno');

                    return false;

                }

                if(branch !== 'CSE' && branch !== 'MCA' && branch
!== 'ECE'){

                    throw new Error('Invalid regno');

                }

                alert('valid regno');

                return false;

            }

        }
```

```
        throw new Error('Hello');

    }

    catch(err) {

        alert('The regno you have entered is invalid');

    }

    return false;

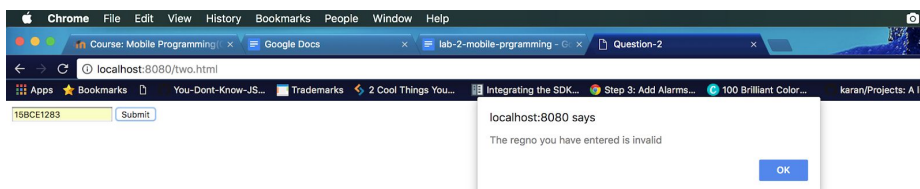
});
```

```
</script>
```

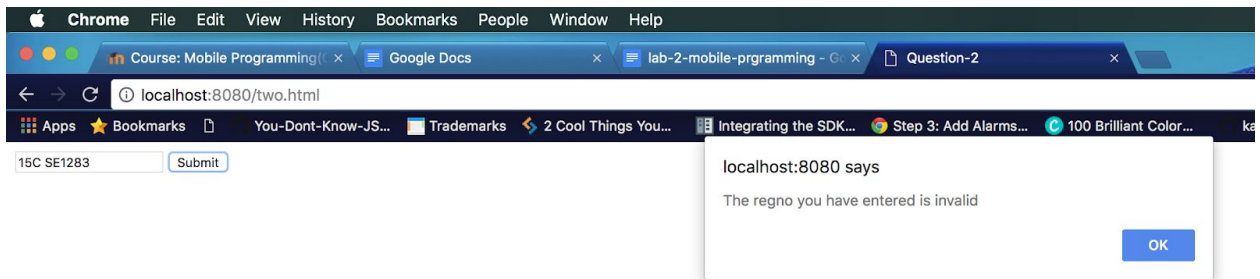
```
</html>
```

Screenshots:

1. Wrong branch code



2. Space in branch code



3. Valid registration number

