LAB 3

```
Q1.
```

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Q1</title>
  </head>
  <body>
    <h1 style="font-size: 5px;color: red;">TEXT-GROWING</h1>
    <script>
      let dec = false;
      t = setInterval(() => {
        let text = document.getElementsByTagName("h1")[0];
        let font = window
          .getComputedStyle(text, null)
          .getPropertyValue("font-size");
        let current = parseFloat(font);
        if (dec) {
         text.style.fontSize = current - 5 + "px";
        } else {
          text.style.fontSize = current + 5 + "px";
        if (current >= 50) {
          dec = true;
          text.innerText = "TEXT-SHRINKING";
          text.style.color = "blue"
        if(parseFloat(window.getComputedStyle(text,null).getPropertyValue("fon
t-size")) == 5) clearInterval(t)
      }, 100);
    </script>
  </body>
</html>
```











```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>q2</title>
</head>
<body>
    <label for="word">Enter a word</label>
    <input type="text" id="word">
    <br><br><br>>
    <button onclick="pigLatin()">Convert to piglatin/button>
    <br><br><br><
    PigLatin: 
    <textarea id="piglatin"></textarea>
</body>
<script>
    function pigLatin(){
        var word = document.getElementById("word").value
        console.log(word)
        let arr = word.split(" ")
        for(let i=0; i<arr.length; i++){</pre>
            arr[i]= arr[i].substring(1,arr[i].length) +arr[i].substring(0,1) +
 "ay"
        }
        document.getElementById("piglatin").innerHTML += (arr.join(" ") + " ")
    }
</script>
</html>
```



```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
</head>
<body>
   <h1>Squares and Cubes</h1>
   <button onclick="execute()">generate</button>
   <br><br><br>>
   Number
          Square
          Cubes
       </body>
<script>
   function execute() {
       table = document.getElementById('sq')
       for(let i=0; i<10; i++){
          }`
       }
   }
</script>
</html>
Output:
 ← → C ↑ ① File | C:/Users/arjun/Desktop/IT/ITT-Lab/lab3/q5.html
Squares and Cubes
 generate
 Number Square Cubes
 1
     1
          1
2
     4
3
         27
4
     16
         64
 5
     25
         125
 6
     36
          216
 7
     49
          343
 8
     64
          512
```

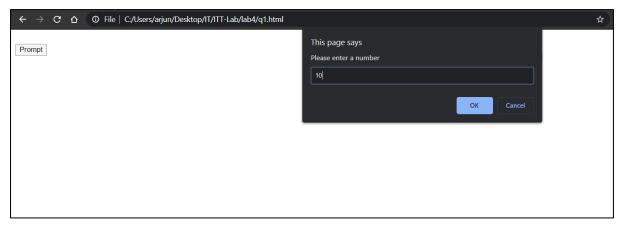
Q5.

```
Lab 4
```

```
Q1.
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
</head>
<body>
   <!-- <label for="n1">Input a number</label>
   <input type="text" id="num"> -->
   <br>
   <button onclick="execute()">Prompt</button>
   FIBONACCI SERIES
   Number
          Square
       </body>
<script>
   function execute(){
       fib = []
       fib.push(1)
       fib.push(1)
       var n = parseInt(prompt("Please enter a number" ))
       //var n = parseInt(document.getElementById("num").value)
       console.log(n)
       if(isNaN(n)){
          alert("Enter a number")
          return
       }
       for(let i=0; i<n-2; i++){</pre>
          fib.push(fib[i] + fib[i])
       }
       var output = fib.join(', ')
       document.getElementById('fibonacci').innerHTML = output
       table = document.getElementById('sq')
       for(let i=0; i<n; i++){</pre>
           table.innerHTML += ` ${i}  ${i*i}`
       }
       setTimeout(function(){
```

```
alert(`${n} squared = ${n*n}`)
}, 1000);

}
</script>
</html>
```







```
Q4.
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <label for="n1">Enter a USN number: </label>
    <input type="text" id="USN">
    <br>
    <button id="submit" disabled='true'>Submit</button>
    <!--Assuming irst character of USN is semester (1-4)-->
</body>
<script>
    var inputText = document.getElementById('USN')
    var submit = document.getElementById('submit')
    var warning = document.getElementById('warning')
    inputText.addEventListener('input', ()=>{
       warning.style.color = 'orange'
        submit.setAttribute('disabled','true')
        if(inputText.value.length !=10){
            console.log(inputText.value.length)
            document.getElementById('warning').innerText = "USN number should")
be 10 digits, no spaces allowed."
           return
        }
        if(!Number.isInteger(parseInt(inputText.value[0]))){
            document.getElementById('warning').innerText = 'First character ha
s to be an integer!'
           return
        }
        if(parseInt(inputText.value[0])>4 || parseInt(inputText.value[0]) <1){</pre>
           document.getElementById('warning').innerText = 'First digit should
 lie between 1 and 4!'
           return
        if(!(inputText.value[1]>="A" && inputText.value[1]<="Z") || !(inputTex</pre>
t.value[2]>="A" && inputText.value[2]<="Z")){</pre>
           document.getElementById('warning').innerText = 'Second and third c
haracter should be uppercase!'
           return
        if(Number(inputText.value.substring(3,5))?false:true){
```

```
document.getElementById('warning').innerText = 'Fourth and fifth c
haracter have to be integers!'
            return
        }
        if(!(inputText.value[5]>="A" && inputText.value[5]<="Z") || !(inputTex</pre>
t.value[6]>="A" && inputText.value[6]<="Z")){</pre>
            document.getElementById('warning').innerText = 'Sixth and seventh
character should be uppercase!'
            return
        }
        if(Number(inputText.value.substring(7,10))?false:true){
            document.getElementById('warning').innerText = 'Seventh eigth and
ninth character have to be integers!'
            return
        }
        else{
            warning.style.color = 'green'
            warning.innerText = 'Looks good!'
            submit.removeAttribute('disabled')
            submit.addEventListener('click', ()=>{
                alert(`You are in Sem ${inputText.value[0]}!`)
            })
        }
    })
</script>
</html>
```



