

Assignment 4

Name :Shivanshu

Roll : 60

Ques1

```
<!DOCTYPE html>
<html>
  <head>
    <title>assignment4</title>
    <script src="fun.js"></script>
  </head>
  <body>
    <!-- Q1- covert 1st letter to upper case -->
    <div>
      <h1> Capitalize first letter </h1>
      <form id="form1">
        Enter string :<input type="text" id="1adata">
      </form>
      <button id="but1" onclick="capital()"> submit</button>
      <p id="an1"></p>
    </div>
    <!-- Q2- covert upper case to lower case and vice versa-->
    <div>
      <h1>Upper to Lower & lower to Upper</h1>
      <form id="3">
        Enter string:<input type="text" id="2data">
      </form>
      <button id="but2" onclick="fxn2()"> submit</button>
      <p id="an2"></p>
    </div>
    <!--Q3(a)- position of left Most vowel-->
    <div>
      <h1>position of left Most vowel</h1>
      <form id="3a">
        Enter string:<input type="text" id="3adata">
      </form>
      <button id="but3a" onclick="leftMostVowel()"> submit </button>
      <p id="ans3a"></p>
    </div>
    <!-- Q3(b)- reverse a number-->
    <div>
      <h1>Reverse a Number</h1>
      <form id="2" >
        Enter Number :<input type="number" id ="mynumber">
      </form>
      <button id="but4" onclick="rever()"> submit</button>
      <p id="an3">
    </p>
```

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</div>
<!-- Q4- frequency of alphabet-->
<div>
  <h1>Frequency of alphabet</h1>
  <form id="4">
    Enter string:<input type="text" id="4data">
  </form>
  <button id="but5" onclick ="frequency()"> submit</button>

  <p id="ans4"></p>
</div>

</body>
</html>
```

javascript

```
// Q1- covert 1st letter to upper case
function capital(){
    let str = document.getElementById("1adata").value;
    //console.log(str);
    var str2 =str.split(" ")
    //console.log(str2);
    var newString ="";
    for (let i = 0; i < str2.length; i++) {
        console.log(str2[i]);
        newString+=str2[i][0].toUpperCase() + str2[i].slice(1)+" ";
    }
    document.getElementById("an1").innerText = "ans =" +newString;
}

// Q2- covert upper case to lower case and vice versa
function fxn2(){
    let str = document.getElementById("2data").value;
    let newString="";
    for (let i = 0; i < str.length; i++) {
        if(str[i] == str[i].toLowerCase() )
            newString+=str[i].toUpperCase();
        else
            newString+=str[i].toLowerCase();
    }
    document.getElementById("an2").innerText="ans =" +newString;
}

// Q3(a) position of Left Most vowel
function leftMostVowel(){
    var string = document.getElementById("3adata").value;
    var index=0;
    for (let i = string.length-1; i >=0; i--) {

        if(string[i]=='a' || string[i]=='e' || string[i]=='i' || string[i]=='o' || string[i]=='u'){
            {
                index = i+1;
                break;
            }
        }
    }

    if(index)
        document.getElementById("ans3a").innerText="ans =" +String(index);
    else
        document.getElementById("ans3a").innerText = "vowel not found";
}

// Q3(b) Reverse a number
```

```
function rever(){
    var num1 = document.getElementById("mynumber").value;
    //console.log(num1);
    let num2 =0;
    while(num1>0)
    {
        num2 = num2*10 + num1%10;
        num1=Math.floor(num1/10);
    }
    //console.log(num2);
    document.getElementById("an3").innerText="ans =" + String(num2);
}
//Q4 count occurrence of each alphabet
function frequency(){
    var string = document.getElementById("4data").value;
    var freq = new Map();
    for (let i = 0; i < string.length; i++) {
        const element = string[i];
        //check if key at index i is present or not
        // if not present create a new key increment its value
        // else just increment the value
        if(freq.has(element))
            freq.set(element,freq.get(element)+1);
        else
            freq.set(element,1);
    }
    var text=""
    for(const [key,value] of freq){
        text+=String(key+' = '+value)+"\n";
    }
    document.getElementById("ans4").innerText = text;
}
```

Capitalize first letter

Enter string :

ans =Happy Birthday

Upper to Lower & lower to l

Enter string:

ans =lOVE

position of left Most vowel

Enter string:

ans =6

Reverse a Number

Enter Number :

ans =422

Frequency of alphabet

Enter string:

s = 1

h = 1

v = 1

i = 1