Assignment 4

Name:Shivanshu

Roll: 60

Ques1

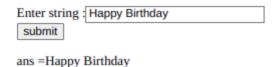
```
<!DOCTYPE html>
<html>
   <head>
       <title>assignment4</title>
       <script src="fun.js"></script>
   </head>
   <body>
       <!-- Q1- covert 1st letter to upper case -->
       <div>
           <h1> Capitalize first letter </h1>
           <form id="form1">
               Enter string :<input type="text" id="1adata">
           <button id="but1" onclick="capital()"> submit</button>
           </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>
           </div>
       <!--Q3(a)- position of left Most vowel-->
           <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>
           </div>
       <!-- Q3(b)- reverse a number-->
       <div>
           <h1>Reverse a Number</h1>
           <form id="2" >
               Enter Number :<input type="number" id ="mynumber">
           <button id="but4" onclick="rever()"> submit</button>
```

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



Upper to Lower & lower to

Enter string: Love	
submit	
ans =lOVE	

position of left Most vowel

Enter stri	ing: NewYear	
submit		
ans =6		

Reverse a Number

Enter Number : 224	
submit	
ans =422	

Frequency of alphabet

Enter string:	shvi
submit	
s = 1	
h = 1	
v = 1	
i = 1	