

# Lab CAT 2

B.Tech in Computer Science and Engineering (CSE), Winter Semester 2020-2021

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## **Question B**

a) This problem will guide you through creating a JS program that accomplishes the following task. The user is prompted to enter numbers until he hits cancel. Then, a histogram of these numbers is printed to the browser. For example, if the user inputs the numbers 5 7 4 2, the browser should output the following picture: [5 Marks]

### **Source code:**

```
<!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 19BCE0977</title>
</head>
<body>
    <script>
        var input;
        var inparr = [];
        do {
            input = prompt("Enter a number:");
            if(!(input === null)){
                inparr.push(input);
        }while(!(input === null));
        for(var i = 0; i < inparr.length; i++) {</pre>
            inparr[i] = parseInt(inparr[i]);
            for(var j = 0; j < inparr[i]; j++) {</pre>
                document.write("*");
            }
            document.write("<br>");
        }
    </script>
</body>
</html>
```

### **Output:**





b) Design the following Form and validate all form components using Client-side Javascript. (i.e appropriate regular expression pattern should be followed). [10 Marks]

Source code:

#### HTML

```
Full Name
           <input type="text" name="full-name" id="full-name">
           Format: FirstName, LastName
        Email
           <input type="text" name="email" id="email">
          Password
           <input type="password" name="pwd" id="pwd">
           Only a-z A-Z 0-9 @ ! allowed
        Date of Birth
           <input type="text" placeholder="mm/dd/yyyy" name="dob"
Country
           <input type="text" name="country" id="country">
           First letter should be capital
        Gender
          <input type="radio" id="male" name="gender" value="male">
             <label for="male">Male</label><br>
             <input type="radio" id="female" name="gender" value="female">
             <label for="female">Female</label><br>
             <input type="radio" id="other" name="gender" value="other">
             <label for="other">Unknown</label>
           </t.r>
        >
           Meal Preference
```

```
<input type="checkbox" id="low-cal" name="low-cal" value="Low</pre>
Calorie">
                  <label for="low-cal"> Low Calorie</label><br>>
                  <input type="checkbox" id="low-salt" name="low-salt" value="Low</pre>
Salt">
                  <label for="low-salt"> Low Salt</label><br>
              <input type="checkbox" id="terms" name="terms" value="Terms">
                  <label for="terms"> I Accept Terms</label><br>
              <input type="submit" id="register" value="Register">
          </t.r>
       </form>
</body>
</html>
JAVASCRIPT
document.getElementById("register").onclick = function () {
   var form = document.getElementById("q2");
   var fn = document.getElementById("full-name");
   var email = document.getElementById("email");
   var pwd = document.getElementById("pwd");
   var dob = document.getElementById("dob");
   var cnt = document.getElementById("country");
   var gender = document.querySelectorAll('input[name="gender"]');
   var meal1 = document.getElementById("low-cal");
   var meal2 = document.getElementById("low-salt");
   var terms = document.getElementById("terms");
```

```
var total = 0;
   var reg = /^{[A_Z][a-z]*, \s[A_Z][a-z]*$/
    if (!(fn.value.match(reg))) {
        document.getElementById("fn-inc").innerHTML += ": PLEASE ENTER IN CORRECT
FORMAT";
       total = 1;
    }
    reg = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
   if (!(email.value.match(reg))) {
        document.getElementById("em-inc").innerHTML += ": PLEASE ENTER IN CORRECT
FORMAT";
       total = 1;
    }
   reg = /[A-Za-z0-9@!]/
    if (!pwd.value.match(reg)) {
        document.getElementById("em-inc").innerHTML += ": PLEASE ENTER IN CORRECT
FORMAT";
       total = 1;
    }
    reg = /^\d{1,2}\/\d{4}$/;
    if (!dob.value.match(reg)) {
       document.getElementById("dob-inc").innerHTML += ": PLEASE ENTER IN CORRECT
FORMAT";
       total = 1;
    }
    reg = /^[A-Z]/;
    if (!cnt.value.match(reg)) {
        document.getElementById("cnt-inc").innerHTML += ": PLEASE ENTER IN CORRECT
FORMAT";
       total = 1;
    }
   var flag = 0;
    for (var i = 0; i < gender.length; i++) {</pre>
        if (gender[i].checked)
            flag = 1;
```

```
}
    if (flag === 0) {
        document.getElementById("gen-inc").innerHTML += ": PLEASE CHECK SOMETHING";
       total = 1;
    }
   flag = 0;
   if (meal1.checked || meal2.checked)
        flag = 1;
    if (flag === 0) {
        document.getElementById("meal-pref").innerHTML += ": PLEASE CHECK
SOMETHING";
       total = 1;
    }
   if (!terms.checked) {
        document.getElementById("terms-inc").innerHTML += ": PLEASE CHECK
SOMETHING";
        total = 1;
    }
   if (total) {
       form.reset();
    }
```

Output:



