Node Js Questions

1.Create a server in node-js to accept the request from the client. On receiving request send response either in HTML format or in Text format. Display message on console that Server running on local host

server.js

```
var http = require('http'); // Import Node.js core module
var server = http.createServer(function (req, res) {    //create web server
    if (req.url == '/') { //check the URL of the current request
       res.writeHead(200, { 'Content-Type': 'text/html' });
       res.write('<html><body><h1>This is home Page.</h1></body></html>');
       res.end();
   else if (req.url == "/student") {
       res.writeHead(200, { 'Content-Type': 'text/html' });
       res.write('<html><body>This is student Page.</body></html>');
       res.end();
   else if (req.url == "/admin") {
       res.writeHead(200, { 'Content-Type': 'text/html' });
       res.write('<html><body>This is admin Page.</body></html>');
       res.end();
       res.end('Invalid Request!');
});
server.listen(5000); //6 - listen for any incoming requests
console.log('Node.js web server at localhost:5000 is running..')
```

2. Write a program in Node js to create your own modules to perform arithmetic operations such as addition, subtraction, multiplication, division. Import these modules to create a calculator in another nodejs file

calc.js

```
exports.add = (a,b) \Rightarrow \{
    return a+b;
exports.sub = (a,b) => {
exports.mult = (a,b) \Rightarrow \{
    return a*b;
exports.div = (a,b) \Rightarrow \{
     return a/b
```

temp.js

```
calc = require('./calc');
console.log("3+2="+calc.add(3,2));
console.log("3-2="+calc.sub(3,2));
console.log("3*2="+calc.mult(3,2));
console.log("3/2="+calc.div(3,2));
console.log("3/0="+calc.div(3,0));
```

```
3+2=5
3-2=1
3*2=6
3/2=1.5
3/0=Infinity
```

3.Write a program in node js to read the existing file data, display on console, and write the data in the existing file

(Hint use fs module of Node js)

```
var http=require('http')
```

```
var fs=require('fs')

const file=fs.readFileSync('data.txt');
console.log(file.toString());

//writing the data in the file
fs.writeFile('data.txt','This is the data written in the file', function(err){
    if(err) throw err;
    console.log('Data written to file');

});

//displaying the updated file
const file1=fs.readFileSync('data.txt');
console.log(file1.toString());
```

4.Write a program in node js to read the existing file data, display on console, and delete the existing file (Hint use fs module of Node js)

```
//Write a program in node js to read the existing file data, display on console,
and delete he existing file

//display the data in the file on console
var http=require('http')
var fs=require('fs')

const file=fs.readFileSync('data.txt');
console.log(file.toString());

//delete the file
fs.unlink('data.txt', function(err) {
    if(err) throw err;
    console.log('File deleted');
})
```

5.Create a server in node-js to accept the request from the client. On receiving request send HTML form in response. Display message on console that Server running on local host

```
//Create a server in node-js to accept the request from the client. On receiving
request send HTML form in response. Display message on console that Server running
on local host

const express = require("express");
const app = express();

app.listen(3000, () => {
   console.log("Application started and Listening on port 3000");
});

app.get("/", (req, res) => {
   res.sendFile(__dirname + "/index.html");
});
```

index.html

6.Create a server in node-js to accept the request from the client. On receiving request send HTML Table in response. Display message on console that Server running on local host

```
server.js
```

```
//Create a server in node-js to accept the request from the client. On receiving
request send HTML table in response. Display message on console that Server running
on local host

const express = require("express");
const app = express();

app.listen(3000, () => {
   console.log("Application started and Listening on port 3000");
});
```

```
app.get("/", (req, res) => {
  res.sendFile(__dirname + "/index2.html");
});
```

index2.html

```
<html lang="en">
  <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>Time Table</title>
        padding: 15px;
  <h1 style="text-align:center">Timetable for AY 2021-2022 (Odd Sem)</h1>
  <h3 style="text-align:center">Pushkar Waykole <br> SAP ID:60009200039</h3>
  Time
         Monday
         Tuesday
         Wednesday
```

```
Thursday
  Friday
  Saturday
DSA[HN]
  DBMS [K1 & K2] [AV] < br > [Online] < br > DSA [K3 & K4] [HN] < br > [Online]
  DSA [HN]
  DBMS [K3 & K4] [AV] < br > [Online] < br > DSA [K1 & K2] [HN] < br > [Online]
10:10 am-11:10 am
  MIS[AB]
  PP [K1 & K2] [PB] < br > [SPM] < br > FDA [K3 & K4] [KRS] < br > [COM]
```

```
SDS [K1 & K2] [SS]<br/>
[COM]<br/>
| K3 & K4] [PB]<br/>
| SPM]
  FDA[KRS]
11:20 am-12:20 am
  FDA[KRS]
  FDA[KRS]
  MIS[AB]
  SDS[VS]
12:30 am -1pm
  Break
1pm-2pm
  SDS[VS]
  FDA [K1 & K2] [KRS] < br > [COM] < br > SDS [K3 & K4] [VS] < br > [SPM]
```

```
MIS[AB]
         MIS[AB] [TUT] [PM]
         COI[RK]
         DSA[HN]
      2:10pm-3:10pm
         DBMS[AV]
         SDS[VS]
         IPD Discussion
         DBMS[AV]
         DBMS [AV] 
   Subject Names
         Lab Names
         Faculty Names
         MIS: Mathematics for Intelligent System <br > DSA: Data Structures
and Algorithms <br > FDA: Foundations
             of Data Analysis <br/> DBMS: Database Management System <br/> SDS:
Statistics for Data Science <br>> PP:
             Programming with Python <br/>
<br/>
COL: Constitution of India
         SPM: Software Project Management [3* Floor] <br/>Or> COM: Computing Lab
[3 Floor]
          AB: Prof. Alisha Bant <br>HN: Prof. Harish Narula <br>KRS: Prof.
Kriti Srivastava <br>AV: Prof. Anusha
             Vegesna <br/> V5: Dr. Vaibhavi Sonetha/<br/>SS: Prof. Shilan Singh
<br/>
<br/>
PB: Prof. Pranit Bari <br/>
RK: Prof.
            Rupali Karande
```

```
</body>
</html>
```

Express Questions

1.Create a server in express js to accept the request from the client. Based on the route specified by user send the response (Hint use get method)

If route is '/'- sen d response as information which will be displayed on browser

If route is '/books' - send response as books information which will be displayed on browser

server.js

```
const express=require('express')

const app=express();

app.get('/',function(req,res) {
    res.send('Hello World');
})

app.get('/books',function(req,res) {
    res.send('Information about Books');
})

app.listen(3000,function() {
    console.log('Server started on port 3000');
})
```

2.Create server in express js to accept the request from the client. Based on the route specified by user send the response (Hint use both get and post method and body parser)

If route is '/'- send response as HTML form.

On form submit use post method, get the data field in form and display in on the browser

server.js

```
var express = require('express');
var app = express();

var bodyParser = require("body-parser");
app.use(bodyParser.urlencoded({ extended: false }));
```

```
app.get('/', function (req, res) {
app.post('/submit-student-data', function (req, res) {
   var name = req.body.firstName + ' ' + req.body.lastName;
   res.send(name + ' Submitted Successfully!');
var server = app.listen(3000, function () {
   console.log('Node server is running..');
```

```
index.html
   <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>Form </title>
   <form action="/submit-student-data" method="post">
   <input type="text" placeholder="First name" name="firstName" >
   Last name
   <input type="text" placeholder="Last name" name="lastName">
   <button type="submit">Submit
```

Harry OP https://www.codewithharry.com/blogpost/mongodb-cheatsheet

1. Create Student Database, create collection student information and perform insert, update, remove operation.

Code:

```
> use Student
switched to db Student
> show dbs
Sample
                             0.000GB
admin
                            0.000GB
config
                             0.000GB
local
                             0.000GB
practical
                            0.000GB
user-authentication 0.000GB
> db.createCollection('test')
 "ok" : 1 }
> db.test.insert({"name":})
uncaught exception: SyntaxError: expected expression, got '}' :
@(shell):1:23
,
> db.test.insert({"name":"op"})
writeResult({ "nInserted" : 1 })
> show collections
test
> db.test.insert({"name":"opewrerw"})
writeResult({ "nInserted" : 1 })
> db.test.update({"name":"op"},{"name":"Harry op","skills":"everything"},{upsert:true})
writeResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.test.insert({"Name":"carry"})
writeResult({ "nInserted" : 1 })
> db.remove({"Name":"carry"})
uncaught exception: TypeError: db.remove is not a function :
@(shell):1:1
> db.test.remove({"Name":"carry"})
WriteResult({ "nRemoved" : 1 })
```

2. Create Student Database, create collection student information and perform insert operation. Write the following queries:

Mai ye wala kar rahe hu mongo db pe ss delta hu: okay

Creating database:

```
use exam
witched to db exam
show collections
est
> db.test.insertOne({"name":"ram","marks":93,"lives":"andheri"})
        "acknowledged" : true,
        "insertedId" : ObjectId("62a361b1bffc45e092fc2fd6")
 db.test.find()
 "_id" : ObjectId("62a361b1bffc45e092fc2fd6"), "name" : "ram", "marks" : 93, "lives" : "andheri" } db.test.insertOne({"name":"shyam","marks":91,"lives":"bandra"})
        "acknowledged" : true,
        "insertedId" : ObjectId("62a361e0bffc45e092fc2fd7")
 db.test.insertOne({"name":"raju","marks":50,"lives":"andheri"})
        "acknowledged" : true,
        "insertedId" : ObjectId("62a361f4bffc45e092fc2fd8")
 db.test.insertOne({"name":"ramu","marks":10,"lives":"vile parle"})
        "acknowledged" : true,
        "insertedId" : ObjectId("62a3621abffc45e092fc2fd9")
```

Display student information who has secured more than 90%. Display student information who failed the examination Display student information who stays in Andheri

Queries:

```
> db.test.find()
{ "_id" : ObjectId("62a361b1bffc45e092fc2fd6"), "name" : "ram", "marks" : 93, "lives" : "andheri" }
{ "_id" : ObjectId("62a361e0bffc45e092fc2fd7"), "name" : "shyam", "marks" : 91, "lives" : "bandra" }
{ "_id" : ObjectId("62a361f4bffc45e092fc2fd8"), "name" : "raju", "marks" : 50, "lives" : "andheri" }
{ "_id" : ObjectId("62a361abffc45e092fc2fd9"), "name" : "ramu", "marks" : 10, "lives" : "vile parle" }
> db.test.find({marks:{$gte:90}})
{ "_id" : ObjectId("62a361b1bffc45e092fc2fd6"), "name" : "ram", "marks" : 93, "lives" : "andheri" }
{ "_id" : ObjectId("62a361e0bffc45e092fc2fd7"), "name" : "shyam", "marks" : 91, "lives" : "bandra" }
> db.test.find({marks:{$tte:35}})
{ "_id" : ObjectId("62a361abffc45e092fc2fd9"), "name" : "ramu", "marks" : 10, "lives" : "vile parle" }
> db.test.find({lives:"andheri"})
{ "_id" : ObjectId("62a361b1bffc45e092fc2fd6"), "name" : "ram", "marks" : 93, "lives" : "andheri" }
{ "_id" : ObjectId("62a361b1bffc45e092fc2fd6"), "name" : "ram", "marks" : 50, "lives" : "andheri" }
{ "_id" : ObjectId("62a361f4bffc45e092fc2fd8"), "name" : "raju", "marks" : 50, "lives" : "andheri" }
```

ref: https://www.tutorialspoint.com/mongodb/mongodb query document.htm#

Mongosh

cheetsheet mongoose cheetsheet.pdf

Youtube video Mongoose Crash Course - Beginner Through Advanced Chota hi hai

3. Create Mongo dB Schema using mongoose module and insert data into database ref: NEW LINK IS HERE

script.js

```
const mongoose = require('mongoose');
// console.log("start");
const connectionParams = {
    useNewUrlParser: true,
    useUnifiedTopology: true,
};
```

```
try {
    mongoose.connect('mongodb://0.0.0.0:27017/temp', connectionParams);
    console.log("Connected to database successfully");
} catch (error) {
    console.log(error);
    console.log("Could not connect database!");
}
// console.log("end");

const kittySchema = new mongoose.Schema({
    name: String
});

const Kitten = mongoose.model('Kitten', kittySchema);

const silence = new Kitten({ name: 'ho ja yaar' });

console.log(silence.name);

silence.save();

const silence2 = new Kitten({ name: 'ho ja yaar please' });

console.log(silence2.name);

silence2.save();
```

Isse naya database banta hai temp naam ka and kitten nam ka collection banta hai,and "ho ja yaar" and 'ho ja yaar please' add hota hai

4. Create Mongo dB Schema using mongoose module and Find All data from database and display on browser

React Questions

1. Create a react application for rendering single element and rendering component having multiple elements

https://codesandbox.io/s/react-practice-question1-w3d7xb?file=/src/Components/Temp.js

Rendering single element

```
import React from "react"
import ReactDOM from "react-dom"

const element = <h1>Hello from Create React App</h1>
ReactDOM.render(element, document.getElementById("root"))
```

Rendering multiple elements

App.js

Temp.js

2. Create a react application for rendering components having multiple elements and reusing the components at multiple places.

```
Temp.js
```

3. Create a react application to build user defined component, export the component and import user defined component

Same as 1 and 2

4. Create a react application to Import and use CSS in react application

Temp.js

```
)
}
export default Temp
```

Temp.css

```
.red{
    color: red;
}
.blue{
    color: blue;
}
```

5. Create a react application to implement props in react application

In this link I have used CSS as well as props. This link is solution to

- 2- reusing list
- 3- bullshit
- 4- CSS
- 5- Props

Temp.js

```
export default Temp
```

```
App.js
```

6. Create a react application for Raising and handling events.

Link for question 6 and 7

Counter.js

```
import {useState} from 'react';

export default function Change() {
  const [isActive, setIsActive] = useState(false);

  const handleClick = () => {
    //    toggle
    setIsActive(current => !current);

    //    or set to true
    // setIsActive(true);
};
```

7. Create a react application to Use of react using State hook to increment and decrement value.

Counter.js

```
import React, { useState } from 'react';

const Counter = () => {

    const [bell, setBell] = useState(0);

    function increase() {
        setBell((oldbell) => oldbell + 1);
    }
    function decrease() {
        setBell((oldbell) => oldbell - 1);
    }

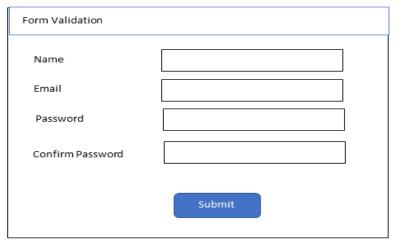
    return (
        <inv>

        This is a counter

        <n3>The value of counter is [bell|</n3>
        <button onClick=(increase)>Increase</button>
        <button onClick=(decrease)>Decrease</button>
        </div>
    )
}
export default Counter;
```

Java Script Questions

1. Write program to perform form validation using JavaScript



index.js

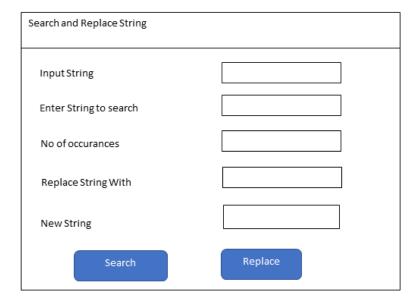
```
console.log("Hello world");
function validate() {
   if (document.myForm.name.value === "") {
      alert("Please provide a name");
      return false;
   }
   if (document.myForm.email.value === "") {
      alert("Please provide a email");
      return false;
   }
   if (document.myForm.password.value === "") {
      alert("Please provide a password");
      return false;
   }
   if (document.myForm.confirmpassword.value === "") {
      alert("Please provide a confirm password");
      return false;
   }
   if (document.myForm.confirmpassword.value === "") {
      alert("Please provide a confirm password");
      return false;
   }
   if (
```

```
document.myForm.password.value !== document.myForm.confirmpassword.value
) {
   alert("Your password and confirm password does not match.");
}
return true;
}
```

index.html

```
<!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" />
  <script src="./index.js"></script>
  <title>Static Template</title>
</head>
<body>
  <h1>Form validation in js</h1>
  <form name="myForm" onsubmit="return validate()">
    Name:<input type="text" name="name" /><br />
    Email:<input type="email" name="email" /><br />
    Password:<input type="text" name="password" /><br />
    Confirm Password:<input type="text" name="confirmpassword" /><br />
    <input type="submit" value="submit" />
  </form>
</body>
</html>
```

2. Write a program to search the string in the given program, display number of occurrences of string and replace the string with new string



html code:

```
Input <input type="text" id="in" value="ababababcd" /> <br />
    Enter string to search <input type="text" id="pattern" value="ab" /> <br />

No of occurances: <input type="text" id="occurances" /> <br />
    Replace str with <input type="text" id="replace" value="op" /> <br />
    new str <input type="text" id="answer" /> <br /> <button onclick="solve()">Click to see magic</button>
```

Script code:

```
const solve = () => {
    const input = document.getElementById("in").value;
    console.log(input);

const pattern = document.getElementById("pattern").value;
    console.log(pattern);

const occur = document.getElementById("occurances");
    console.log(occur);

console.log(occur);

const num = input.split(pattern).length - 1;
    console.log(num);
    occur.value = num;
```

```
const re = document.getElementById("replace").value;
console.log(re);

const ans = document.getElementById("answer");
let result = input.replaceAll(pattern, re);
ans.value = result;
console.log(result);
};
```

3. Write JavaScript program to display the even nos and odd nos from the given list



html code

Script code:

```
const odd = () => {
    const arr = document.getElementById("in").value;
    console.log(arr);
    const a = arr.split(" ");
    console.log(a);
    const nums = a.map((str) => {
        return Number(str);
    });
```

```
console.log(nums);
 const n = nums.filter((num) => {
    return num % 2 != 0;
  });
 const output = document.getElementById("out");
 output.value = n;
};
const even = () => {
 const arr = document.getElementById("in").value;
 console.log(arr);
 const a = arr.split(" ");
 console.log(a);
 const nums = a.map((str) => {
    return Number(str);
 });
 console.log(nums);
 const n = nums.filter((num) => {
 });
 const output = document.getElementById("out");
 output.value = n;
};
```

4. Write a program in JavaScript to take a list of numbers from user and double all the numbers and display the doubled list

Html code:

```
Input <input type="text" id="in" value="1 2 3 4" /><br />
  doubled <input type="text" id="ans" /><br />
  <button onclick="double()">Double</button>
```

Script code:

```
const double = () => {
    const input = document.getElementById("in").value;
    const arr = input.split(" ");
    const nums = arr.map((str) => {
        return Number(str);
    });
    console.log(nums);
```

```
const ans = nums.map((n) => {
    return n * 2;
});
console.log(ans);

document.getElementById("ans").value = ans;
};
```

5. Program to design a calculator using JavaScript



calc.js

```
function display(val) {
  document.getElementById("result").value += val;
  return val;
}

function solve() {
  let x = document.getElementById("result").value;
  let y = 0;
  if (x.includes("Sqrt")) {
    let number = x.split("Sqrt");
    let result = parseInt(number[1]);
    console.log(number);
```

```
y = Math.sqrt(result);
 } else if (x.includes("log")) {
   let result = x.split("log");
   let number = parseInt(result[1]);
   y = Math.log(number);
  } else if (x.includes("^")) {
   let result = x.split("^");
   y = Math.pow(parseInt(result[0]), parseInt(result[1]));
   y = eval(x);
 document.getElementById("result").value = y;
 return y;
function clearScreen() {
 document.getElementById("result").value = "";
```

index.html

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
   <script src="./calc.js" type="text/javascript"></script>
   <title>Calculator-JS</title>
</head>
<body>
   <h1 style="text-align:center">Calculator App</h1>
   <br>
   <input type='text' id='result' class ='screen'</pre>
         <div class="keys">
       <input type="button" value="^" class="button"</pre>
onClick="display('^')"></input>
```

```
<input type="button" value="log" class="button"</pre>
onClick="display('log')"></input>
        <input type="button" value="Sqrt" class="button"</pre>
onClick="display('Sqrt')"></input>
        <input type='button' value = 'C' onclick="clearScreen()"</pre>
class="button c-button"/>
    <input type="button" value="7" class="button"</pre>
onClick="display('7')"></input>
    <input type="button" value="8" class="button "</pre>
onClick="display('8')"></input>
    <input type="button" value="9" class="button"</pre>
onClick="display('9')"></input>
    <input type="button" value="/" class="operator"</pre>
onClick="display('/')"></input>
    <input type="button" value="4" class="button"</pre>
onClick="display('4')"></input>
    <input type="button" value="5" class="button"</pre>
onClick="display('5')"></input>
    <input type="button" value="6" class="button"</pre>
onClick="display('6')"></input>
    <input type="button" value="*" class="operator"</pre>
onClick="display('*')"></input>
    <input type="button" value="1" class="button"</pre>
onClick="display('1')"></input>
    <input type="button" value="2" class="button"</pre>
onClick="display('2')"></input>
    <input type="button" value="3" class="button"</pre>
onClick="display('3')"></input>
```

```
<input type="button" value="-" class="operator"</pre>
onClick="display('-')"></input>
    <input type="button" value="0" class="button"</pre>
onClick="display('0')"></input>
    <input type="button" value="." class="button"</pre>
onClick="display('.')"></input>
    <input type="button" value= "=" class="button equal-sign"</pre>
onClick="solve()"></input>
    <input type="button" value="+" class="operator"</pre>
onClick="display('+')"></input>
</div>
</div>
</body>
</html>
 border: 1px solid #ccccc;
 background: white;
```

```
container {
  border: lpx solid #ccccc;
  background: white;

box-shadow: 10px 10px 30px 0px rgba(0, 0, 0, 0.75);

border-radius: 20px;

position: absolute;

top: 55%;
```

```
left: 50%;
transform: translate (-50\%, -50\%);
width: 450px;
height: 600px;
display: grid;
grid-template-columns: repeat(4, 1fr);
grid-gap: 10px;
padding: 10px;
margin: auto;
height: 60px;
```

```
padding: 3px;
font-weight: bolder;
border-radius: 50%;
background-color: cadetblue;
border: none;
font-size: 2rem;
color: #333;
background-image: linear-gradient(
 transparent,
  transparent 50%,
 rgba(0, 0, 0, 0.04)
);
text-shadow: 0 1px rgba(255, 255, 255, 0.4);
background-color: rgb(163, 235, 238);
```

```
.operator {
 color: black;
 background-color: rgb(62, 62, 201);
 border: none;
 font-size: 2rem;
 border-radius: 25px;
.operator:hover {
 background-color: rgb(139, 228, 231);
 background-color: white;
 border-color: orange;
 color: black;
 display: inline-block;
 width: 80px;
 height: 40px;
```

```
margin-left: 135px;
 margin-bottom: 12px;
 border-radius: 30px;
 background-color: orange;
.equal-sign {
 background-color: orange;
 border: none;
 border-radius: 15px;
 color: #fff;
equal-sign:hover {
 background-color: #4e9ed4;
 background-color: rgb(171, 219, 231);
```

```
justify-content: left;
color: black;
font-size: large;
width: 113%;
height: 100px;
padding: 10px;
padding-left: 40%;
margin: auto;
margin-bottom: 10px;
border: none;
margin-left: 10px;
border-radius: 15px;
```

```
.c-button {
 background-color: orange;
 border-radius: 30px;
 color: white;
.c-button:hover {
 background-color: orange;
```

6. Write a JavaScript program to sort the items of an array.

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <script>
    function sort() {
      const arr = document.getElementById("in").value;
      console.log(arr);
      const a = arr.split(" ");
      console.log(a);
      const nums = a.map((str) => {
        return Number(str);
      });
      console.log(nums);
      console.log(nums.sort());
      var g = document.getElementById("out");
      g.value = nums.sort();
```

7. Create a function that takes two numbers as arguments (number, length) and returns an array of multiples of number until the array length reaches length.

```
const arrayOfMultiples = (a, b) => {
    let arr = [];
    let x = 1;
    for (let i = 1; i <= b; i++) {
        arr.push(a * x);
        x++;
    }
    return arr;
};
console.log(arrayOfMultiples(7, 5));</pre>
```

8. Create a function that determines whether a number is Oddish or Evenish. A number is Oddish if the sum of all its digits is odd, and a number is Evenish if the sum of all its digits is even. If a number is Oddish, return "Oddish". Otherwise, return "Evenish".

```
const oddOrEven = (n) => {
    let a = n.toString();
    let b = 0;
    for (let i = 0; i < a.length; i++) {
        b += parseInt(a[i]);
    }
    if (b % 2 === 1) {
        return "Oddish";
    } else return "Evenish";</pre>
```

```
};
console.log(oddOrEven(45));
```

9. Create a function that will return the total number of digits in the given no as 234123 has 6 digits and Sum of all the digits

```
const q9 = (n) => {
    let a = n.toString();
    let b = 0;
    let count = a.length;
    for (let i = 0; i < a.length; i++) {
        b += parseInt(a[i]);
    }
    console.log(b, count);
};</pre>
```

10. Write a JavaScript program to test whether the first character of a string is uppercase or not.

```
const check = (n) => {
    let a = n.toString();
    let f = a[0];
    if (f == f.toUpperCase()) {
        console.log("Yes");
    } else {
        console.log("No");
    }
};

console.log(check("Sdfsd"));
```

11. Write a JavaScript program to count and display the items of a dropdown list, in an alert window

html

```
<!DOCTYPE html>
<html>
<head>
```

```
<meta charset=utf-8 />
    <style type="text/css">
        body {
            margin: 30px;
   </style>
   <title>Count and display items of a dropdown list - w3resource</title>
</head>
<body>
   <form>
        Select your favorite Color:
        <select id="mySelect">
            <option>Red</option>
            <option>Green</option>
            <option>Blue</option>
            <option>White
        </select>
        <input type="button" onclick="getOptions()" value="Count and Output all</pre>
items">
</body>
</html>
```

```
js
```

```
function getOptions() {
  var x = document.getElementById("mySelect");
  var txt1 = "No. of items in dropdown is : ";
  var i;
  l = document.getElementById("mySelect").length;
  txt1 = txt1 + l;
  for (i = 0; i < x.length; i++) {
    txt1 = txt1 + "\n" + x.options[i].text;
  }
  alert(txt1);
}</pre>
```

ref: codepen

1. Create a static web page using HTML.

2. Create a class timetable using HTML.

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9 am-10am	DSA (HN)	THE REPORT OF THE PERSON NAMED IN			NEW TOTAL	Seturday
	- Contract	新疆市民民共和国	DBMS [K1 &K2] (AV)	平的自由的特別自然的	DSA (HN)	DBMS [K3 &K4] (AV
10:10 am- 11: 10am	MIS (AB)	PP [K1 & K2] (PB)	[Online] D5A [K3 & K4] (HN)	COS DUA O MANAGEMENT	STATE OF THE PARTY	[Online]
		[SPM]	[Online]	SDS [K1 & K2] (SS)	FDA (KRS)	DSA [K1 & K2] (HN
11:20am - 12:20pm	FDA (KRS)	FDA [K3 & K4] (KRS)	FDA (KRS)	PP [K3 & K4] (PB)	MIS (AB)	[Online]
12: 30pm-1pm		[COM]		[SPM]	MIS (AB)	SDS (VS)
12: Supm-1pm			Bre	rak		CONTRACTOR OF THE PERSON NAMED IN
1pm-2pm	SDS (VS)	FDA [K1 & K2] (KRS)	MIS (AB) MIS (AB)/TUTI (PM)			THE REAL PROPERTY.
THE REAL PROPERTY.		[COM]	MIS (AD)	MIS (AB)[TUT] [PM]	COI (RK)	DSA (HN)
2:10pm-3:10pm	DBMS (AV)	SDS [K3 & K4] (VS) [SPM]	SDS (VS)	IPD Discussion	DBMS (AV)	DBMS (AV)
subject Names MIS: Mathematics for Into SSA: Data Structures and DA: Foundations of Data MBMS: Database Manage DS: Statistics for Data Sci P: Programming with Pyr	Algorithms Analysis ment System ience	Lab Names SPM: Softwar	e Project Management [ting Lab [3 rd Floor]	HN: Prof. KRS: Prof. AV: Prof. VS: Dr. Va	ames Alisha Banz Harish Narula Kriti Srivastava Anusha Vegesna iohavi Sonetha/ SS: F	Prof. Shillank Singh

3. Create a registration form using HTML.

Prefix	Where do you want to be picked up?
Name First Name Last	lame
Preferred Pronouns	Where do you want to be dropped of
Email sample@example.com	
Work Phone	
Cell Phone	Will your spouse attend? Leave name and contact info if so.
Job Title	
Company	Are you interested in attending the V
Flight arrival time (to be picked u	Networking event? p)
	O Yes O No
Flight departure time (to be drop off)	ped Would you like to be sent event gifts:
,	O Yes O No

4. Design a web page using External or Embedded Style Sheet.



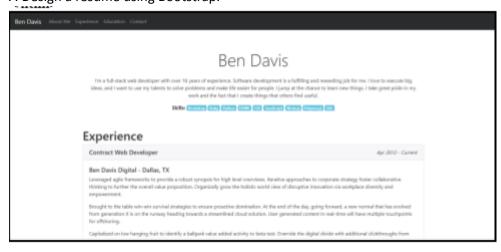
5. Design a responsive web page using media queries and CSS3.



On devices with minimum width of 500px and maximum width of 700px, the background color will be black

On the other hand, devices with less than the minimum width of 500px will have the body be displayed in blue $\,$

- 6. Design a web page using Bootstrap.
- 7. Design a resume using Bootstrap.



8. Design the admission form using Bootstrap.