# INTERNET TECHNOLOGIES

# SUBMITTED BY - VIVEK SHARMA

COURSE - B.SC(H) CS

 $YEAR - 3^{RD}$ 

SEMESTER  $-5^{TH}$ 

**ROLL NO. – 21013570104** 

Clg ROLL NO. – 2K21/CS/111

SUBMITTED TO
-PARUL MA'AM

1. Display your systems IP Address, Subnet mask using ipconfig, and find out the network address and the maximum number of systems possible on your network and range of IP addresses available to these systems.

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.22621.2715]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Vivek>ipconfig
Windows IP Configuration
Wireless LAN adapter Local Area Connection* 1:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
Wireless LAN adapter Local Area Connection* 2:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
Wireless LAN adapter Wi-Fi:
  Connection-specific DNS Suffix . : bbrouter
  Link-local IPv6 Address . . . . : fe80::e3f0:3fbe:4d42:1165%10
  IPv4 Address. . . . . . . . . : 192.168.1.9
  Default Gateway . . . . . . . : 192.168.1.1
:\Users\Vivek>
```

To determine the network address, we perform a bitwise AND operation between the IP address and the subnet mask.

- IP Address (binary): 11000000.10101000.0000001.00001000

Performing bitwise AND:

• Network Address (binary): 11000000.10101000.00000001.00000000

Converting back to decimal:

• Network Address: 192.168.1.0

Maximum number of systems:

The subnet mask specifies that the last 8 bits of the IP address are used for hosts. Since the subnet mask is 255.255.0, the mask is a /24 mask. This means 24 bits are used for the network and 8 bits are used for hosts.

 $2^8$  (number of bits used for hosts) - 2 (reserved addresses for network address and broadcast address) = 256 - 2 = 254

### Therefore, the maximum number of systems on the network is 254.

Available IP address range:

- Start address: 192.168.1.1
- End address: 192.168.1.254

Therefore, the available IP address range is: 192.168.1.1 - 192.168.1.254.

2. With help of ping, check if you are connected to other systems of your network and find the route to connect to that system using tracert. List all the processes which are using ports for TCP protocol.

```
C:\Users\Vivek>ping 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64
Reply from 192.168.1.1: bytes=32 time=2ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64
Reply from 192.168.1.1: bytes=32 time=4ms TTL=64
Ping statistics for 192.168.1.1:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 1ms, Maximum = 4ms, Average = 2ms
C:\Users\Vivek>tracert 192.168.1.1
Tracing route to 192.168.1.1 over a maximum of 30 hops
       3 ms
                1 ms
                         1 ms 192.168.1.1
 1
```

C:\Users\Vivek>netstat -ano   findstr "TCP"				
TCP	0.0.0.0:135	0.0.0.0:0	LISTENING	1292
TCP	0.0.0.0:445	0.0.0.0:0	LISTENING	4
TCP	0.0.0.0:3306	0.0.0.0:0	LISTENING	4932
TCP	0.0.0.0:5040	0.0.0.0:0	LISTENING	1628
TCP	0.0.0.0:33060	0.0.0.0:0	LISTENING	4932
TCP	0.0.0.0:49664	0.0.0.0:0	LISTENING	920
TCP	0.0.0.0:49665	0.0.0.0:0	LISTENING	924
TCP	0.0.0.0:49666	0.0.0.0:0	LISTENING	1504
TCP	0.0.0.0:49667	0.0.0.0:0	LISTENING	1592
TCP	0.0.0.0:49668	0.0.0.0:0	LISTENING	3168
TCP	0.0.0.0:49669	0.0.0.0:0	LISTENING	604
TCP	0.0.0.0:49678	0.0.0.0:0	LISTENING	3816
TCP	0.0.0.0:49679	0.0.0.0:0	LISTENING	3816
TCP	127.0.0.1:49673	127.0.0.1:49674	ESTABLISHED	4932
TCP	127.0.0.1:49674	127.0.0.1:49673	ESTABLISHED	4932
TCP	127.0.0.1:49675	127.0.0.1:49676	ESTABLISHED	4932
TCP	127.0.0.1:49676	127.0.0.1:49675	ESTABLISHED	4932
TCP	192.168.1.9:139	0.0.0.0:0	LISTENING	4
TCP	192.168.1.9:55174	20.198.119.143:443	ESTABLISHED	1504
TCP	192.168.1.9:55241	163.70.145.60:443	ESTABLISHED	2428
TCP	192.168.1.9:55293	20.212.88.117:443	ESTABLISHED	5688
TCP	192.168.1.9:55344	20.198.119.84:443	ESTABLISHED	5688
TCP	192.168.1.9:55594	23.32.28.9:443	CLOSE_WAIT	13980
TCP	192.168.1.9:55595	23.32.28.115:443	CLOSE_WAIT	13980
TCP	192.168.1.9:55596	23.32.28.115:443	CLOSE_WAIT	13980
TCP	192.168.1.9:55597	23.32.28.115:443	CLOSE_WAIT	13980
TCP	192.168.1.9:55598	23.32.28.115:443	CLOSE_WAIT	13980
TCP	192.168.1.9:55599	23.32.28.115:443	CLOSE_WAIT	13980
TCP	192.168.1.9:55600	23.32.28.115:443	CLOSE_WAIT	13980
TCP	192.168.1.9:55607	152.195.38.76:80	CLOSE_WAIT	13980
TCP	192.168.1.9:55634	3.6.211.252:443	ESTABLISHED	3216
TCP	192.168.1.9:55860	13.89.179.9:443	TIME_WAIT	0
TCP	192.168.1.9:55863	52.109.124.29:443	TIME_WAIT	0
TCP	[::]:135	[::]:0	LISTENING	1292
TCP	[::]:445	[::]:0	LISTENING	4
TCP	[::]:3306	[::]:0	LISTENING	4932
TCP	[::]:33060	[::]:0	LISTENING	4932
TCP	[::]:49664	[::]:0	LISTENING	920
TCP	[::]:49665	[::]:0	LISTENING	924
TCP	[::]:49666	[::]:0	LISTENING	1504
TCP	[::]:49667	[::]:0	LISTENING	1592
TCP	[::]:49668	[::]:0	LISTENING	3168
TCP	[::]:49669	[::]:0	LISTENING	604

C:\Users\Vivek>\_

3. Create an HTML page that shows information about you, your course, hobbies, address, and your plans. Use CSS for styling of HTML page so that looks nice.

### Index.html

```
<!DOCTYPE html>
<html>
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initialscale=1.0">
   <link rel="stylesheet" type="text/css" href="style.css">
</head>
<title>Document</title>
</head>
<body>
   <div class="container">
       <h1>About Me</h1>
       Name: Vivek Sharma
       Age: 19
       <h2>Course</h2>
       B.Sc(H) Computer Science
       Delhi University
       <h2>My Hobbies</h2>
       1. Video Games
       2. Music
       3. Volley ball
       4. Sketching
       <h2>My Address</h2>
       Sahibabad, Ghaziabad
       <h2>My Plans</h2>
       Plan A : Joining Defence force
       Plan B : Becoming a Data Scientist
       Plan C : Becoming a Web Developer
   </div>
</body>
</html>
```

### Style.css

```
body {
    font-family: Arial, sans-serif;
    margin: 0;
```

```
padding: 0;
    background-color: #333;
    color:
        #f0f0f0;
.container {
    width: 80%;
    margin: 20px auto;
    padding:
        20px;
    background-color: #444;
    border-radius:
    box-shadow: 0px 0px 10px 0px rgba(0, 0, 0,0.75);
h1,
h2 {
   color: #fff;
    color: #ccc;
```

```
About Me
Name: Vivek Sharma
Age: 19
Course
B. Sc(H) Computer Science
Delhi University
My Hobbies
1. Video Games
2. Music
3. Volley ball
4. Sketching
My Address
Sahibabad, Ghaziabad
My Plans
Plan A: Joining Defence force
Plan B: Becoming a Data Scientist
Plan C: Becoming a Web Developer
```

4. Create an HTML page with the sole purpose to show multiplication tables of 2 to 10 (row-wise) created by JavaScript. Initially, the

page is blank. With help of setInterval function print a row every 5 seconds in different colors and increasing font size.

### Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Multiplication Tables</title>
    <style>
        .row {
            display: block;
            margin-bottom: 10px;
        }
    </style>
</head>
<body>
    <div id="multiplicationTable"></div>
    <script src="table.js"></script>
</body>
</html>
```

### Table.js

```
let colors = ['red', 'blue', 'green', 'purple', 'orange', 'brown', 'magenta', 'cyan', 'lime',
'pink'];
        let fontSizes = [20, 25, 30, 35, 40, 45, 50, 55, 60, 65];
        let table = document.getElementById('multiplicationTable');
        let counter = 1;
        function printRow() {
            let row = '';
            for (let i = 2; i <= 10; i++) {
                row += i * counter + ' ';
            let rowElement = document.createElement('div');
            rowElement.textContent = row;
            rowElement.style.color = colors[counter - 2];
            rowElement.style.fontSize = fontSizes[counter - 2] + 'px';
            rowElement.classList.add('row');
            table.appendChild(rowElement);
            counter++;
            if (counter > 10) {
                clearInterval(interval);
```

```
let interval = setInterval(printRow, 5000);
```

```
23 4 5 6 7 8 9 10
4 6 8 10 12 14 16 18 20
6 9 12 15 18 21 24 27 30
8 12 16 20 24 28 32 36 40
10 15 20 25 30 35 40 45 50
12 18 24 30 36 42 48 54 60
14 21 28 35 42 49 56 63 70
16 24 32 40 48 56 64 72 80
18 27 36 45 54 63 72 81 90
20 30 40 50 60 70 80 90 100
```

5. Create an HTML page with a paragraph written on it and under which 9 buttons are placed in a 3X3 grid. The first row is for buttons labeled with colors names Red, Green, and Blue, the second row with numbers 10, 20, 30, and the third row with different font names. Click event of each of the buttons should make the appropriate change in the style of paragraph.

```
HI, I am Vivek
    <div style="display: grid; grid-template-columns: repeat(3, 1fr); gap: 10px; margin-top:</pre>
20px;">
       <button onclick="changeColor('red')">Red</button>
       <button onclick="changeColor('green')">Green</button>
       <button onclick="changeColor('blue')">Blue</button>
       <button onclick="changeFontSize(10)">10</button>
       <button onclick="changeFontSize(20)">20</button>
       <button onclick="changeFontSize(30)">30</button>
       <button onclick="changeFont('Arial')">Arial</button>
       <button onclick="changeFont('Courier New')">Courier New
       <button onclick="changeFont('Times New Roman')">Times New Roman</button>
   </div>
   <script src="q5.js"></script>
</body>
</html>
```

### Q5.js

```
function changeColor(color) {
    document.getElementById('para').style.color = color;
}
function changeFontSize(fontSize) {
    document.getElementById('para').style.fontSize = fontSize + 'px';
}
function changeFont(font) {
    document.getElementById('para').style.fontFamily = font;
}
```

6. Create a form that takes data about a pet. The form must be well designed and should accept the pet's name, age, weight, type, and what it likes most. At the submission of this form create a Pet object in JavaScript filled with these values and log that object and equivalent JSON on the console.

### Style.css

event.preventDefault();

```
form {
    display: flex;
    flex-direction: column;
    max-width: 400px;
    margin: 0 auto;
}
input, textarea, select {
    margin-bottom: 1rem;
    padding: .5rem;
    font-size: 1rem;
}
button {
    background-color: #007BFF;
    color: white;
    padding: .5rem 1rem;
    font-size: 1rem;
    border: none;
    cursor: pointer;
}
button:hover {
    background-color: #0056b3;
}
Q6.js
```

document.getElementById('petForm').addEventListener('submit', function(event) {

```
var name = document.getElementById('name').value;
    var age = document.getElementById('age').value;
    var weight = document.getElementById('weight').value;
    var type = document.getElementById('type').value;
    var likes = document.getElementById('likes').value;
    var pet = new Pet(name, age, weight, type, likes);
    console.log(pet);
    console.log(JSON.stringify(pet));
});
class Pet {
    constructor(name, age, weight, type, likes) {
        this.name = name;
        this.age = age;
        this.weight = weight;
        this.type = type;
        this.likes = likes;
    }
```

Name
thomas

Age
3

Weight
40

Type
pitbull

What it likes most

milk

**Submit** 

```
q6.js:11

▶ Pet {name: 'thomas', age: '3', weight: '40', type: 'pitbull', likes: 'milk'}

{"name":"thomas", "age": "3", "weight": "40", "type": "pitbull", "likes": "milk"}

>
```

7. Store JSON data of few pets that you created in previous practical in a JSON file (copy from console output of previous program to a .json file). Using AJAX, load data from the file and display it in a presentable way using HTML and CSS.

### Index.html

### data.json

### app.js

```
$.ajax({
    url: "data.json",
    success: function(petData) {
        let app = document.getElementById('app');

        for (let i = 0; i < petData.pets.length; i++) {</pre>
```

```
let pet = petData.pets[i];
    let div = document.createElement('div');
    div.innerHTML = `Name: ${pet.name}, Age: ${pet.age}, Weight: ${pet.weight}, Type:
${pet.type}, Likes: ${pet.likes}`;
    app.appendChild(div);
}
}
});
```

Name: Fido, Age: 3, Weight: 10, Type: bulldog, Likes: Ball Name: Jack, Age: 2, Weight: 16, Type: pitbull, Likes: running

8. Create a plain HTML page for B.Sc. Hons CS course, mentioning details like fee, eligibility criteria, papers with names and credits, and future possibilities after the course. A button for styling should be there at bottom of the page. On clicking on this button JavaScript should redesign the complete page using jQuery in a nice presentable way.

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>B.Sc. Hons CS Course</title>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
    <style>
        .default {
           font-family: Arial, sans-serif;
           font-size: 16px;
        .styled {
           font-family: 'Courier New', monospace;
           font-size: 24px;
           color: blue;
    </style>
</head>
<body class="default">
   <h1>B.Sc. Hons CS Course</h1>
    <h2>Fee</h2>
   INR 50,000 per year
    <h2>Eligibility Criteria</h2>
    10+2 with Mathematics or Physics as one of the subjects
```

### Q8.js

```
$("#styleButton").click(function() {
    $("body").removeClass("default");
    $("body").addClass("styled");
    $("h1, h2").css("color", "red");
});
```

### **B.Sc. Hons CS Course**

### Fee

INR 50,000 per year

### Eligibility Criteria

10+2 with Mathematics or Physics as one of the subjects

### **Papers**

- 1. Computer Fundamentals (3 credits)
- 2. Operating Systems (3 credits)
- 3. Data Structures and Algorithms (3 credits)
- 4. Networking (3 credits)
- Software Engineering (3 credits)

### Future Possibilities

Students can pursue higher studies like M.Sc. or Ph.D. in CS, or opt for jobs in IT companies or startups.

Click to Redesign

### B.Sc. Hons CS Course

```
Fee
```

```
Eligibility Criteria

10+2 with Mathematics or Physics as one of the subjects

Papers

1. Computer Fundamentals (3 credits)
2. Operating Systems (3 credits)
3. Data Structures and Algorithms (3 credits)
4. Networking (3 credits)
5. Software Engineering (3 credits)
Future Possibilities

Students can pursue higher studies like M.Sc. or Ph.D. in CS, or opt for jobs in IT companies or startups.
```

9. Create an HTML page for an image gallery which shows the use of BOOTSTRAP to rearrange and resize its contents on resizing the browser.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Image Gallery</title>
    <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>
   <div class="container">
        <h1 class="text-center">Image Gallery</h1>
        <div class="row">
            <div class="col-md-4">
                <img
src="https://imgs.search.brave.com/9HMwN6WQgYZdiIQGli8YbEHeavS0UW499b9fS1QE3tM/rs:fit:860:0:0
g:ce/aHR0cHM6Ly9tZWRp/YS5pc3RvY2twaG90/by5jb20vaWQvMTA0/MTk4NzQ4OC9waG90/by9jdXR1LWRvZy1w/dX/
QtaGlzLWZhY2Ut/b24taGlzLWtuZWVz/LXRvLXRoZS1tYW4t/YW5kLXNtaWxpbmct/ZnJvbS10aGUtaGFu/ZHMtc2NyYX
RjaGlu/Zy1oZXItZWFyLmpw/Zz9zPTYxMng2MTIm/dz0wJms9MjAmYz10/S0dmOG5tWFZka3Nt/T1MwQXk2OTZjV1BO/U
0lmQ0pKMX11X3k5/akZHQnNNPQ" class="img-fluid">
            </div>
```

```
<div class="col-md-4">
                <img
src="https://imgs.search.brave.com/9HMwN6WQgYZdiIQGli8YbEHeavS0UW499b9fS1QE3tM/rs:fit:860:0:0
g:ce/aHR0cHM6Ly9tZWRp/YS5pc3RvY2twaG90/by5jb20vaWQvMTA0/MTk4NzQ4OC9waG90/by9jdXR1LWRvZy1w/dX/
QtaGlzLWZhY2Ut/b24taGlzLWtuZWVz/LXRvLXRoZS1tYW4t/YW5kLXNtaWxpbmct/ZnJvbS10aGUtaGFu/ZHMtc2NyYX
RjaGlu/Zy1oZXItZWFyLmpw/Zz9zPTYxMng2MTIm/dz0wJms9MjAmYz10/S0dmOG5tWFZka3Nt/T1MwQXk2OTZjV1BO/U
0lmQ0pKMXl1X3k5/akZHQnNNPQ" class="img-fluid">
            </div>
            <div class="col-md-4">
                <img
src="https://imgs.search.brave.com/9HMwN6WQgYZdiIQGli8YbEHeavS0UW499b9fS1QE3tM/rs:fit:860:0:0
g:ce/aHR0cHM6Ly9tZWRp/YS5pc3RvY2twaG90/by5jb20vaWQvMTA0/MTk4NzQ4OC9waG90/by9jdXR1LWRvZy1w/dX/
QtaGlzLWZhY2Ut/b24taGlzLWtuZWVz/LXRvLXRoZS1tYW4t/YW5kLXNtaWxpbmct/ZnJvbS10aGUtaGFu/ZHMtc2NyYX
RjaGlu/Zy1oZXItZWFyLmpw/Zz9zPTYxMng2MTIm/dz0wJms9MjAmYz10/S0dmOG5tWFZka3Nt/T1MwQXk2OTZjV1BO/U
0lmQ0pKMXl1X3k5/akZHQnNNPQ" class="img-fluid">
            </div>
        </div>
        <div class="row">
            <div class="col-md-4">
                <img
src="https://imgs.search.brave.com/9HMwN6WQgYZdiIQGli8YbEHeavS0UW499b9fS1QE3tM/rs:fit:860:0:0
/g:ce/aHR0cHM6Ly9tZWRp/YS5pc3RvY2twaG90/by5jb20vaWQvMTA0/MTk4NzQ40C9waG90/by9jdXR1LWRvZy1w/dX
QtaGlzLWZhY2Ut/b24taGlzLWtuZWVz/LXRvLXRoZS1tYW4t/YW5kLXNtaWxpbmct/ZnJvbS10aGUtaGFu/ZHMtc2NyYX
RjaGlu/Zy1oZXItZWFyLmpw/Zz9zPTYxMng2MTIm/dz0wJms9MjAmYz10/S0dmOG5tWFZka3Nt/T1MwQXk2OTZjV1BO/U
01mQ0pKMX11X3k5/akZHQnNNPQ" class="img-fluid">
            </div>
            <div class="col-md-4">
                <img
src="https://imgs.search.brave.com/9HMwN6WQgYZdiIQGli8YbEHeavS0UW499b9fS1QE3tM/rs:fit:860:0:0
/g:ce/aHR0cHM6Ly9tZWRp/YS5pc3RvY2twaG90/by5jb20vaWQvMTA0/MTk4NzQ4OC9waG90/by9jdXR1LWRvZy1w/dX
QtaGlzLWZhY2Ut/b24taGlzLWtuZWVz/LXRvLXRoZS1tYW4t/YW5kLXNtaWxpbmct/ZnJvbS10aGUtaGFu/ZHMtc2NyYX
RjaGlu/Zy1oZXItZWFyLmpw/Zz9zPTYxMng2MTIm/dz0wJms9MjAmYz10/S0dmOG5tWFZka3Nt/T1MwQXk2OTZjV1BO/U
0lmQ0pKMX11X3k5/akZHQnNNPQ" class="img-fluid">
            </div>
            <div class="col-md-4">
src="https://imgs.search.brave.com/9HMwN6WQgYZdiIQGli8YbEHeavS0UW499b9fS1QE3tM/rs:fit:860:0:0
g:ce/aHR0cHM6Ly9tZWRp/YS5pc3RvY2twaG90/by5jb20vaWQvMTA0/MTk4NzQ40C9waG90/by9jdXR1LWRvZy1w/dX/
QtaGlzLWZhY2Ut/b24taGlzLWtuZWVz/LXRvLXRoZS1tYW4t/YW5kLXNtaWxpbmct/ZnJvbS10aGUtaGFu/ZHMtc2NyYX
RjaGlu/Zy1oZXItZWFyLmpw/Zz9zPTYxMng2MTIm/dz0wJms9MjAmYz10/S0dmOG5tWFZka3Nt/T1MwQXk2OTZjV1BO/U
0lmQ0pKMX11X3k5/akZHQnNNPQ" class="img-fluid">
            </div>
        </div>
    </div>
</body>
</html>
```

## **Image Gallery**







10. Create an HTTP server using Node.js which handles requests on port 10000 or a free port beyond 10000. Modify the server in such a way that opening localhost:10000 will display "Hello world, This is my Node.js server" on browser.

```
varhttp = require('http');
http.createServer((request,response)=>{
  response.write("Hello World, This is my Node.js server");
  response.end();
})
.listen(10000,()=>console.log('server started at port 10000'));
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\Assignments\IT\Practicals> cd Q10

PS D:\Assignments\IT\Practicals\Q10> node index.js
server started at port 10000
```

Hello World, This is my Node.js server

```
<head>
  <title>Customer Form</title>
  k
    rel="stylesheet"
   href="//netdna.bootstrapcdn.com/bootstrap/3.0.3/css/bootstrap.min.css"
  <script src="//ajax.googleapis.com/ajax/libs/jquery/2.0.3/jquery.min.js"></script>
</head>
<body>
  <div class="col-sm-6 col-sm-offset-3">
   <h1>Customer Form</h1>
   <form id="customerForm">
      <div class="form-group">
        <label for="firstName">First Name</label>
        <input
          type="text"
          class="form-control"
          id="firstName"
          placeholder="First Name"
       />
      </div>
      <div class="form-group">
        <label for="lastName">Last Name</label>
        <input
          type="text"
          class="form-control"
          id="lastName"
          placeholder="Last Name"
        />
      </div>
      <div class="form-group">
        <label for="age">Age</label>
        <input</pre>
          type="number"
          class="form-control"
          id="age"
          placeholder="Age"
      </div>
      <div class="form-group">
        <label for="birthday">Birthday</label>
        <input type="date" class="form-control" id="birthday" />
      </div>
      <div class="form-group">
        <label for="foodPreferences">Food Preferences</label>
        <input</pre>
          type="text"
          class="form-control"
          id="foodPreferences"
          placeholder="Food Preferences"
```

```
</div>
        <button type="submit" class="btn btn-success">Submit</button>
      </form>
   </div>
    <script>
     $(document).ready(function () {
        $("#customerForm").submit(function (e) {
          e.preventDefault();
          // Create JavaScript Object const
         customer = {
           firstName: $("#firstName").val(),
           lastName: $("#lastName").val(),
           age: $("#age").val(),
           birthday: $("#birthday").val(),
           foodPreferences: $("#foodPreferences").val(),
         };
         // Create JSON Object const customerJSON =
         JSON.stringify(customer);
         // Print objects to console
         console.log("JavaScript Object:", customer);
          console.log("JSON Object:", customerJSON);
       });
     });
     $.ajax({
        url: "https://jsonplaceholder.typicode.com/users", //JSONPlaceholder URL
        type: "GET",
       dataType: "json",
        success: function (data) {
          for (let i = 0; i < 2; i++) {
           // Display the data of the first two customers
           const customer = data[i];
           const customerDiv = $("<div></div>").addClass("customer");
           customerDiv.append($("<h2></h2>").text(customer.name));
           customerDiv.append($("").text("Email: " + customer.email));
           $("body").append(customerDiv); // Add the customer div to the body
       },
        error: function (jqXHR, textStatus, errorThrown) {
          console.log("AJAX Error:", textStatus);
       },
     });
    </script>
 </body>
</html>
```

# **Customer Form**

# Chirag Last Name wadhwa Age 19 Birthday 11-11-2023 Food Preferences ice cream

# Leanne Graham

Email: Sincere@april.biz

# Ervin Howell

Email: Shanna@melissa.tv

