

INTERNET TECHNOLOGIES

SEM-V

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Q1: 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.

Sol:

```
Vimal_Joshi@x515da:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: wlp1s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether 44:af:28:59:92:8c brd ff:ff:ff:ff:ff:ff
    inet 192.168.96.146/24 brd 192.168.96.255 scope global dynamic noprefixroute wlp1s0
        valid_lft 3104sec preferred_lft 3104sec
    inet6 2405:204:3292:cbcc:faa2:e18c:bb9c:57be/64 scope global temporary dynamic
        valid_lft 3469sec preferred_lft 3469sec
    inet6 2405:204:3292:cbcc:db12:d6d6:a076:8fbe/64 scope global dynamic mngtmpaddr noprefixroute
        valid_lft 3469sec preferred_lft 3469sec
    inet6 fe80::e403:3f3f:a588:170e/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
Vimal_Joshi@x515da:~$
```

- System IP Address: 192.168.96.146
- Subnet mask: 255.255.255.0
- Network ID: 192.168.43.0
- Broadcast ID: 192.168.43.255
- Maximum number of system possible on the network: 254
- Range of IP addresses: 192.168.43.0 to 192.168.43.255
- Class type: C

Q2. 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.

Sol:

PING

```
codefreak@x515da: ~  
Vimal_Joshi@x515da:~$ ping google.com  
PING google.com(del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e)) 56 data bytes  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=1 ttl=116 time=52.9 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=2 ttl=116 time=116 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=3 ttl=116 time=49.8 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=4 ttl=116 time=46.5 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=5 ttl=116 time=43.7 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=6 ttl=116 time=78.4 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=7 ttl=116 time=62.6 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=8 ttl=116 time=56.4 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=9 ttl=116 time=57.8 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=10 ttl=116 time=55.9 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=11 ttl=116 time=56.0 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=12 ttl=116 time=53.1 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=13 ttl=116 time=52.2 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=14 ttl=116 time=50.6 ms  
64 bytes from del11s21-in-x0e.1e100.net (2404:6800:4002:82c::200e): icmp_seq=15 ttl=116 time=47.7 ms  
^C  
--- google.com ping statistics ---  
15 packets transmitted, 15 received, 0% packet loss, time 14025ms  
rtt min/avg/max/mdev = 43.693/58.608/115.650/17.158 ms
```

TRACERT

```
codefreak@x515da: ~  
Vimal_Joshi@x515da:~$ traceroute google.com  
traceroute to google.com (142.250.206.174), 30 hops max, 60 byte packets  
1 _gateway (192.168.96.133) 34.748 ms 34.734 ms 34.860 ms  
2 * * *  
3 10.71.83.18 (10.71.83.18) 98.587 ms 98.642 ms 10.71.83.2 (10.71.83.2) 98.822 ms  
4 172.26.100.120 (172.26.100.120) 89.660 ms 90.684 ms 90.955 ms  
5 172.26.100.102 (172.26.100.102) 98.462 ms 172.26.100.103 (172.26.100.103) 96.526 ms 172.26.100.102 (172.26.100.102) 101.738 ms  
6 192.168.44.22 (192.168.44.22) 98.896 ms 41.051 ms 41.152 ms  
7 * * *  
8 * * *  
9 * * *  
10 * 72.14.195.34 (72.14.195.34) 51.257 ms 142.250.168.56 (142.250.168.56) 41.782 ms  
11 * * 108.170.251.113 (108.170.251.113) 62.498 ms  
12 142.251.76.203 (142.251.76.203) 47.908 ms 108.170.251.123 (108.170.251.123) 27.312 ms 108.170.251.107 (108.170.251.107) 42.961 ms  
13 108.170.251.123 (108.170.251.123) 40.520 ms 108.170.251.107 (108.170.251.107) 39.101 ms 142.251.76.201 (142.251.76.201) 40.749 ms  
14 74.125.244.193 (74.125.244.193) 38.455 ms 142.251.76.201 (142.251.76.201) 39.375 ms 51.600 ms  
15 del11s22-in-f14.1e100.net (142.250.206.174) 30.643 ms 39.380 ms 142.251.76.201 (142.251.76.201) 37.773 ms  
Vimal_Joshi@x515da:~$
```

NETSTAT -r

```
Vimal_Joshi@x515da:~$ netstat -r  
Kernel IP routing table  
Destination Gateway Genmask Flags MSS Window irtt Iface  
default _gateway 0.0.0.0 UG 0 0 0 wlp1s0  
link-local 0.0.0.0 255.255.0.0 U 0 0 0 wlp1s0  
192.168.96.0 0.0.0.0 255.255.255.0 U 0 0 0 wlp1s0
```

NETSTAT -a

Vimal_Joshi@x515da:~\$ netstat -a

Active Internet connections (servers and established)

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State
tcp	0	0	localhost:33060	0.0.0.0:*	LISTEN
tcp	0	0	localhost:ipp	0.0.0.0:*	LISTEN
tcp	0	0	localhost:mysql	0.0.0.0:*	LISTEN
tcp	0	0	localhost:27017	0.0.0.0:*	LISTEN
tcp	0	0	localhost:domain	0.0.0.0:*	LISTEN
tcp	0	0	x515da:33802	91.108.56.105:https	ESTABLISHED
tcp	0	0	x515da:34950	91.108.56.126:https	ESTABLISHED
tcp	0	0	x515da:43704	91.108.23.100:https	ESTABLISHED
tcp	0	0	x515da:36840	ec2-54-89-159-71.:https	ESTABLISHED
tcp6	0	0	ip6-localhost:ipp	:::*	LISTEN
tcp6	0	0	:::1716	:::*	LISTEN
tcp6	1	0	x515da:33766	2600:1900:4110:86f:http	CLOSE_WAIT
tcp6	0	0	x515da:39904	2600:1901:1:b05::https	ESTABLISHED
tcp6	0	0	x515da:48344	2600:1901:1:916::https	TIME_WAIT
tcp6	0	0	x515da:38138	2600:1901:1:c36::https	TIME_WAIT
tcp6	0	0	x515da:38124	2600:1901:1:c36::https	TIME_WAIT
tcp6	0	0	x515da:38140	2600:1901:1:c36::https	TIME_WAIT
tcp6	0	0	x515da:51282	si-in-f188.1e100.n:5228	ESTABLISHED
tcp6	0	0	x515da:50414	2a04:4e42:42::760:https	ESTABLISHED
tcp6	0	0	x515da:47026	2a04:4e42:42::760:https	ESTABLISHED
tcp6	0	0	x515da:48506	2a04:4e42:42::760:https	ESTABLISHED
udp	0	0	0.0.0.0:631	0.0.0.0:*	
udp	0	0	224.0.0.251:mdns	0.0.0.0:*	
udp	0	0	0.0.0.0:mdns	0.0.0.0:*	
udp	0	0	0.0.0.0:58642	0.0.0.0:*	
udp	0	0	localhost:domain	0.0.0.0:*	
udp	0	0	x515da:bootpc	_gateway:bootps	ESTABLISHED
udp6	0	0	:::mdns	:::*	
udp6	0	0	:::1716	:::*	
udp6	0	0	:::52958	:::*	
raw6	0	0	:::ipv6-icmp	:::*	7

Active UNIX domain sockets (servers and established)

Proto	RefCnt	Flags	Type	State	I-Node	Path
unix	2	[]	DGRAM		51470	/run/user/1000/systemd/notify

```

unix 2 [ ACC ] STREAM LISTENING 51478 /run/user/1000/bus
unix 2 [ ACC ] STREAM LISTENING 51479 /run/user/1000/gnupg/S.dirmngr
unix 2 [ ACC ] STREAM LISTENING 49020 Q/tmp/.ICE-unix/7492
unix 2 [ ACC ] STREAM LISTENING 51480 /run/user/1000/gnupg/S.gpg-agent.browser
unix 2 [ ACC ] STREAM LISTENING 51481 /run/user/1000/gnupg/S.gpg-agent.extra
unix 2 [ ACC ] STREAM LISTENING 51482 /run/user/1000/gnupg/S.gpg-agent.ssh
unix 2 [ ACC ] STREAM LISTENING 51483 /run/user/1000/gnupg/S.gpg-agent
unix 2 [ ACC ] STREAM LISTENING 51484 /run/user/1000/pk-debconf-socket
unix 2 [ ACC ] STREAM LISTENING 51485 /run/user/1000/pulse/native
unix 2 [ ACC ] STREAM LISTENING 48023 Q/tmp/dbus-0rUXwBj6
unix 2 [ ACC ] STREAM LISTENING 51486 /run/user/1000/snapd-session-agent.socket
unix 2 [ ACC ] STREAM LISTENING 53532 Q/tmp/.X11-unix/X0
unix 2 [ ACC ] STREAM LISTENING 43411 /var/run/mysqld/mysqld.sock
unix 2 [ ACC ] STREAM LISTENING 48765 /run/user/1000/keyring/control
unix 2 [ ACC ] STREAM LISTENING 50925 Q/tmp/dbus-pr8755cFu0
unix 2 [ ACC ] STREAM LISTENING 53533 /tmp/.X11-unix/X0
unix 2 [ ACC ] STREAM LISTENING 43419 /var/run/mysqld/mysqld.sock
unix 2 [ ACC ] STREAM LISTENING 41754 Q/tmp/dbus-LElH0xd1
unix 5 [ ] DGRAM CONNECTED 18257 /run/systemd/notify
unix 2 [ ACC ] STREAM LISTENING 18260 /run/systemd/private
unix 2 [ ACC ] STREAM LISTENING 18262 /run/systemd/userdb/io.systemd.DynamicUser
unix 2 [ ACC ] STREAM LISTENING 42145 /run/mongodb/mongodb-27017.sock
unix 2 [ ] DGRAM 18271 /run/systemd/journal/syslog
unix 2 [ ACC ] STREAM LISTENING 18273 /run/systemd/fsck.progress
unix 19 [ ] DGRAM CONNECTED 18281 /run/systemd/journal/dev-log
unix 2 [ ACC ] STREAM LISTENING 18283 /run/systemd/journal/stdout
unix 8 [ ] DGRAM CONNECTED 18285 /run/systemd/journal/socket
unix 2 [ ACC ] SEQPACKET LISTENING 18287 /run/udev/control
unix 2 [ ACC ] STREAM LISTENING 51773 /run/user/1000/keyring/pkcs11
unix 2 [ ACC ] STREAM LISTENING 51796 /run/user/1000/keyring/ssh
unix 2 [ ACC ] STREAM LISTENING 48024 Q/tmp/dbus-NuYj4ciu
unix 2 [ ACC ] STREAM LISTENING 49021 /tmp/.ICE-unix/7492
unix 2 [ ACC ] STREAM LISTENING 74257 /tmp/14f640018a896e6cb01745560eaf7e65-{87A94AB0-E370-4cde-98D3-ACC110C5967D}
unix 2 [ ACC ] STREAM LISTENING 54469 /tmp/ssh-tIjNM0WtyNev/agent.7360
unix 2 [ ACC ] STREAM LISTENING 21060 /run/systemd/journal/io.systemd.journal
unix 2 [ ACC ] STREAM LISTENING 99961 /tmp/.com.google.Chrome.8lvVr5/SingletonSocket
unix 2 [ ACC ] STREAM LISTENING 41755 Q/tmp/dbus-FfxBWrrE
unix 2 [ ACC ] STREAM LISTENING 78448 /tmp/OSL_PIPE_1000_SingleOfficeIPC_d54d32658885ebff462da4196e901dc9

```

```

unix 3 [ ] STREAM CONNECTED 76702
unix 3 [ ] STREAM CONNECTED 55779 /run/user/1000/bus
unix 3 [ ] STREAM CONNECTED 45984
unix 3 [ ] STREAM CONNECTED 35328
unix 3 [ ] STREAM CONNECTED 101947
unix 3 [ ] STREAM CONNECTED 54161 /run/user/1000/bus
unix 3 [ ] STREAM CONNECTED 55500
unix 3 [ ] STREAM CONNECTED 33594 /run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 56631
unix 3 [ ] STREAM CONNECTED 27527 /run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 51908
unix 3 [ ] STREAM CONNECTED 54709 /run/user/1000/bus
unix 3 [ ] STREAM CONNECTED 56781 /run/user/1000/pulse/native
unix 3 [ ] STREAM CONNECTED 59757 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 97859 /run/user/1000/bus
unix 3 [ ] STREAM CONNECTED 100537
unix 3 [ ] STREAM CONNECTED 78451
unix 3 [ ] STREAM CONNECTED 55510 /run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 21110 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 60627 Q/tmp/.X11-unix/X0
unix 3 [ ] STREAM CONNECTED 60572 /run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 96832
unix 3 [ ] SEQPACKET CONNECTED 92962
unix 3 [ ] STREAM CONNECTED 54814 /run/user/1000/bus
unix 3 [ ] STREAM CONNECTED 59466 /run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 49062
unix 3 [ ] STREAM CONNECTED 49055
unix 3 [ ] STREAM CONNECTED 111678 Q/tmp/.X11-unix/X0
unix 3 [ ] STREAM CONNECTED 56483
unix 3 [ ] STREAM CONNECTED 54694
unix 3 [ ] STREAM CONNECTED 48782 /run/user/1000/bus
unix 3 [ ] STREAM CONNECTED 45902 /run/systemd/journal/stdout

```

```

unix 3 [ ] STREAM CONNECTED 48816 /run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 51457 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 40052 /run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 97857 @/tmp/.X11-unix/X0
unix 3 [ ] STREAM CONNECTED 99947
unix 3 [ ] STREAM CONNECTED 58490 @/tmp/.X11-unix/X0
unix 3 [ ] STREAM CONNECTED 54164 /run/user/1000/bus
unix 3 [ ] STREAM CONNECTED 48351 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 54030 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 43541
unix 3 [ ] STREAM CONNECTED 55487
unix 3 [ ] STREAM CONNECTED 53859 @/home/codefreak/.cache/ibus/dbus-MLBmXj
unix 3 [ ] STREAM CONNECTED 60971 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 53159
unix 3 [ ] STREAM CONNECTED 46904 /run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 51498
unix 3 [ ] STREAM CONNECTED 37220 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 60673 /run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 108153 /run/user/1000/bus
unix 3 [ ] STREAM CONNECTED 75580 /run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 57637 @/tmp/.X11-unix/X0
unix 3 [ ] STREAM CONNECTED 57552 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 51837 /run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 48800
unix 3 [ ] STREAM CONNECTED 86323 /run/user/1000/pulse/native
unix 3 [ ] STREAM CONNECTED 82300 @/dbus-vfs-daemon/socket-MQzmeLkm
unix 3 [ ] STREAM CONNECTED 48801 /run/user/1000/bus
unix 3 [ ] STREAM CONNECTED 54788 /run/user/1000/bus
unix 3 [ ] STREAM CONNECTED 50308
unix 3 [ ] DGRAM CONNECTED 42307
unix 3 [ ] STREAM CONNECTED 97112
unix 3 [ ] STREAM CONNECTED 74255 @/home/codefreak/.cache/ibus/dbus-MLBmXj
unix 3 [ ] STREAM CONNECTED 56712
unix 3 [ ] STREAM CONNECTED 32076
unix 3 [ ] STREAM CONNECTED 101614
unix 3 [ ] STREAM CONNECTED 77039
unix 3 [ ] STREAM CONNECTED 52017 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 52014

```

```

Vimal_Joshi@x515da:~$ ping 157.240.208.174
PING 157.240.208.174 (157.240.208.174) 56(84) bytes of data.
64 bytes from 157.240.208.174: icmp_seq=1 ttl=45 time=135 ms
64 bytes from 157.240.208.174: icmp_seq=2 ttl=45 time=140 ms
64 bytes from 157.240.208.174: icmp_seq=3 ttl=45 time=133 ms
64 bytes from 157.240.208.174: icmp_seq=4 ttl=45 time=123 ms
64 bytes from 157.240.208.174: icmp_seq=5 ttl=45 time=133 ms
64 bytes from 157.240.208.174: icmp_seq=6 ttl=45 time=132 ms
64 bytes from 157.240.208.174: icmp_seq=7 ttl=45 time=132 ms
64 bytes from 157.240.208.174: icmp_seq=8 ttl=45 time=130 ms
64 bytes from 157.240.208.174: icmp_seq=9 ttl=45 time=131 ms
64 bytes from 157.240.208.174: icmp_seq=10 ttl=45 time=119 ms
^C
--- 157.240.208.174 ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9004ms
rtt min/avg/max/mdev = 119.464/130.864/140.232/5.505 ms

```


Q3: 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.

HTML 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>Vimal Joshi</title>
<link rel="stylesheet" href="css/style.css">
<link rel="icon" type="image/x-icon" href="favicon.ico?v=2">
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link href="https://fonts.googleapis.com/css2?family=Merriweather&family=Montserrat&family=Sacramento&display=swap" rel="stylesheet">
</head>

<body>
<div class="top-container">

<h1>I'm Vimal Joshi</h1>
<h2> A <span class="sean">Pro</span>grammer</h2>


</div>
<div class="middle-container">
<div class="profile">

<h2>Hello.</h2>
<p>
Myself Vimal Joshi, a student of Ramanujan college.<br>
Doing my majors in Computer science<br>
This website is made by me<br>
</p>
</div>
<hr>
<div class="skills">
<h2>My Skills.</h2>
<div class="skill-row">
<br>
<h3>DevOps</h3>
<p>
Installation and configuration of linux server, Migration to AWS, CICD Integrations,
Sourcecode migration from Github to Gitlab
</p>
</div>
<div class="skill-row">
<br>
<h3>competitive programming</h3>
<p>
Solved 100+ questions on different coding platforms.
</p>
</div>
<div class="skill-row">
```

```

<br>
<h3>Web developer</h3>
<p>
Still learning web development made various small projects.
</p>
</div>
</div>
<hr>
<div class="contact-me">
<h2>Get In Touch</h2><br>
<h3>If you liked my work</h3><br>
<p>
You can contact me by clicking following links
</p><br>
<a class="btn" href="mailto:vimaljoshi8860@gmail.com">CONTACT ME</a>
</div>
<br>
<br>
</div>

<div class="bottom-container">
<a class="footer-link" href="https://www.linkedin.com/in/vimal-joshi-95b9321a8">LinkedIn</a>
<a class="footer-link" href="https://twitter.com/ItsVimalJoshi">Twitter</a>
<a class="footer-link" href="https://www.vimaljoshi.com">Website</a>
<p class="vimal-joshi-bottom">© 2022 Vimal Joshi.</p>
</div>
</body>

</html>

```

CSS Code:

```

body {
margin: 0;
text-align: center;
/* the text align centre will align all the element of the parent(body) class */
font-family: 'Merriweather', serif;
}

div {
background-color: white;
}

.pro {
font-size: 1.5rem;
}

h1 {
font-size: 3.15rem;
width: 10%;
margin: 0 auto 0 auto;
font-family: 'Sacramento', cursive;
margin: 50px auto 0 auto;
color: #174803;
line-height: 2;
}

h2 {

```

```
font-family: 'Montserrat', sans-serif;
font-size: 2.5rem;
color: #08801a;
font-weight: normal;
}
```

```
h3 {
font-family: 'Montserrat', sans-serif;
color: #11999E;
}
a {
color: #11999E;
}
```

```
.top-container {
/* background-color: rgba(28, 216, 240, 0.963); */
background-image: linear-gradient(to bottom right,#36d1dc,#5b86e5);
position: relative;
padding-top: 100px;
}
```

```
.middle-container{
padding-top: 60px;
}
```

```
.bottom-container {
background-color: #014949;
padding: 50px 0 50px 0;
background-color: black;
}
```

```
.sean {
text-decoration: underline;
}
```

```
.top-cloud {
position: absolute;
right: 300px;
top: 50px;
}
```

```
.bottom-cloud {
position: absolute;
left: 300px;
bottom: 300px;
}
```

```
.skill-row {
width: 50%;
margin: 100px auto 100px auto;
text-align: left;
line-height: 2;
}
```

```
.devimg{
width: 25%;
float: left;
margin-right: 30px;
}
```

```
.compimg{
width: 25%;
float: right;
```



```
margin-left: 30px;
}
```

```
.webimg{
width: 25%;
float: left;
margin-right: 30px;
}
```

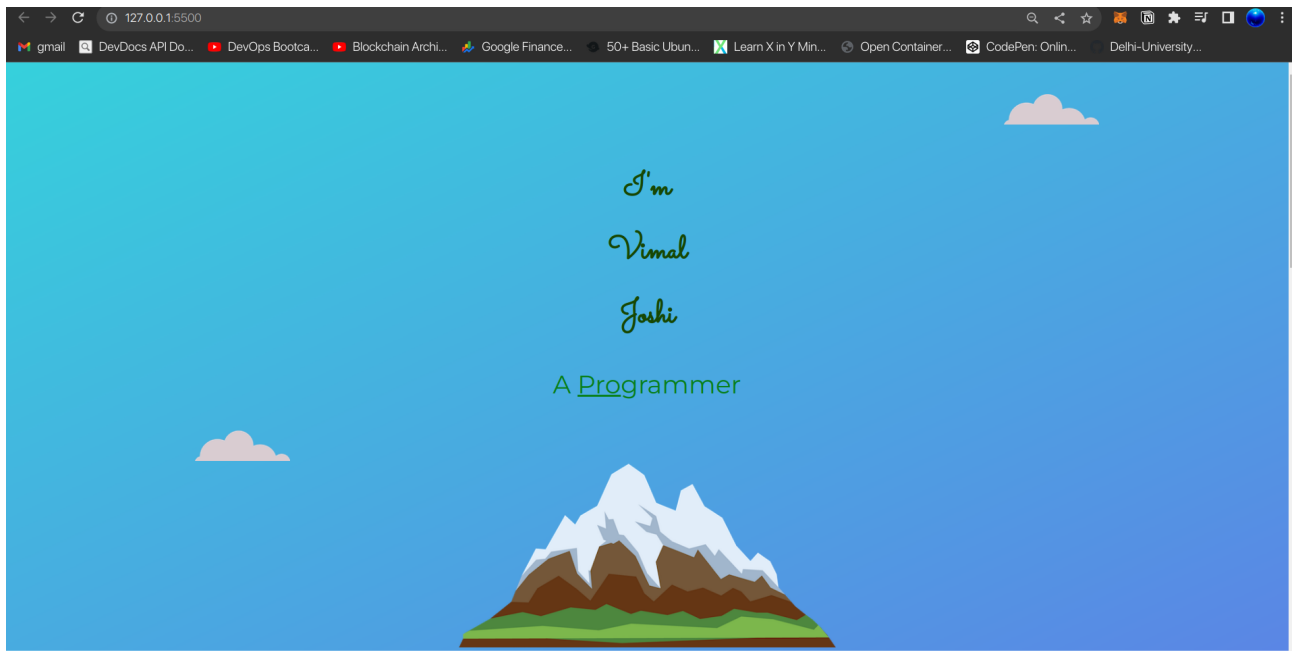
```
.myimg {
border-radius: 50%;
width: 15%
}
```

```
.btn {
background: #11cdd4;
background-image: -webkit-linear-gradient(top, #11cdd4, #11999e);
background-image: -moz-linear-gradient(top, #11cdd4, #11999e);
background-image: -ms-linear-gradient(top, #11cdd4, #11999e);
background-image: -o-linear-gradient(top, #11cdd4, #11999e);
background-image: linear-gradient(to bottom, #11cdd4, #11999e);
-webkit-border-radius: 8;
-moz-border-radius: 8;
border-radius: 8px;
font-family: Arial;
color: #ffffff;
font-size: 20px;
padding: 10px 20px 10px 20px;
text-decoration: none;
}
```

```
.btn:hover {
background: #30e3cb;
background-image: -webkit-linear-gradient(top, #30e3cb, #2bc4ad);
background-image: -moz-linear-gradient(top, #30e3cb, #2bc4ad);
background-image: -ms-linear-gradient(top, #30e3cb, #2bc4ad);
background-image: -o-linear-gradient(top, #30e3cb, #2bc4ad);
background-image: linear-gradient(to bottom, #30e3cb, #2bc4ad);
text-decoration: none;
}
```

```
.vimal-joshi-bottom{
color: #EAF6F6;
}
```

OUTPUT:



Hello.

Myself Vimal Joshi, a student of Ramanujan college.
Doing my majors in Computer science
This website is made by me

My Skills.



DevOps

Installation and configuration of linux server, Migration to AWS, CI/CD Integrations,
Sourcecode migration from Github to Gitlab

competitive programming

Solved 100+ questions on different coding platforms.



Web developer

Still learning web development made various small projects.

Get In Touch

If you liked my work

You can contact me by clicking following links

CONTACT ME

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Q4: 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.

Code:

```
<!DOCTYPE html>
<html>
<head>
<title>Practical 4</title>
<meta charset="utf-8">
<style type="text/css">
table{
border: 1px solid black;
border-collapse: collapse;
width: 80%;
margin: auto;
}
td,th{
border: 1px solid black;
padding: 5px;
/* border-collapse: collapse; */
}
.center{
text-align: center;
}
</style>
</head>
<body>
<h1>Printing Table from 2 to 10</h1>
<table class="center" id="content">
```

```

</table>
<script type="text/javascript">
function getRandomColor() {
var letters = '0123456789ABCDEF';
var color = '#';
for (var i = 0; i < 6; i++) {
color += letters[Math.floor(Math.random() * 16)];
}
return color;
}

var tbl = document.getElementById('content');
var number = 2;
var abc = setInterval(printrow,5000);

function printrow(){
if (number == 10)
{
clearInterval(abc);
}
var result = "";
for(var i = 1; i ≤ 10; i++){
result = result + "<td>" + number + "*" + i + "=" + number * i+"</td>";
}
number++;
var row = document.createElement('tr');
row.style.color= getRandomColor();
row.style.fontSize = (number+10)+"px";
row.innerHTML=result;
tbl.append(row);
}
</script>

</body>
</html>

```

Output:

Printing Table from 2 to 10

2*1=2	2*2=4	2*3=6	2*4=8	2*5=10	2*6=12	2*7=14	2*8=16	2*9=18	2*10=20
3*1=3	3*2=6	3*3=9	3*4=12	3*5=15	3*6=18	3*7=21	3*8=24	3*9=27	3*10=30
4*1=4	4*2=8	4*3=12	4*4=16	4*5=20	4*6=24	4*7=28	4*8=32	4*9=36	4*10=40
5*1=5	5*2=10	5*3=15	5*4=20	5*5=25	5*6=30	5*7=35	5*8=40	5*9=45	5*10=50
6*1=6	6*2=12	6*3=18	6*4=24	6*5=30	6*6=36	6*7=42	6*8=48	6*9=54	6*10=60
7*1=7	7*2=14	7*3=21	7*4=28	7*5=35	7*6=42	7*7=49	7*8=56	7*9=63	7*10=70
8*1=8	8*2=16	8*3=24	8*4=32	8*5=40	8*6=48	8*7=56	8*8=64	8*9=72	8*10=80
9*1=9	9*2=18	9*3=27	9*4=36	9*5=45	9*6=54	9*7=63	9*8=72	9*9=81	9*10=90
10*1=10	10*2=20	10*3=30	10*4=40	10*5=50	10*6=60	10*7=70	10*8=80	10*9=90	10*10=100

Q5: 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.

Code:

```
<!DOCTYPE html>
<html>

<head>
<title>Practical 5</title>
<meta charset="utf-8">

<style type="text/css">
.btn-box {
display: flex;
flex-wrap: wrap;
justify-content: space-around;
border: 1px solid black;
padding: 10px;
}

.color,
.fontSize,
.fontStyle {
width: 30%;
min-width: 350px;
height: 35px;
/*margin: auto;*/
margin-bottom: 10px;
border: 1px solid #F3F1F5;
```

```

box-shadow: 4px 4px 5px #2dcfec;
border-radius: 10px;
color: #F3F1F5;
background-color: #0dd28d;
font-weight: bold;
font-size: 20px;
}
</style>
</head>

```

```

<body>
<h1>Practical no. 5: Action on clicking the buttons</h1>
<p id="container">
    "A moment of happiness, you and I sitting on the verandah, apparently two, but one in soul, you
    and I. We feel the flowing water of life here, you and I, with the garden's beauty and the
    birds singing. The stars will be watching us, and we will show them what it is to be a thin
    crescent moon. You and I unselfed, will be together, indifferent to idle speculation, you and
    I. The parrots of heaven will be cracking sugar as we laugh together, you and I. In one form
    upon this earth, and in another form in a timeless sweet land."
</p>
<div class="btn-box">
    <button class="color">Red</button>
    <button class="color">Blue</button>
    <button class="color">Green</button>
</div>
<div class="btn-box">
    <button class="fontSize">10</button>
    <button class="fontSize">20</button>
    <button class="fontSize">30</button>
</div>
<div class="btn-box">
    <button class="fontStyle">'Courier New', monospace</button>
    <button class="fontStyle">'Brush Script MT', cursive</button>
    <button class="fontStyle">Verdana, sans-serif</button>
</div>

```

```

<script type="text/javascript">

```

```

var colors = document.getElementsByClassName("color");
var fontSizes = document.getElementsByClassName("fontSize");
var fontStyles = document.getElementsByClassName("fontStyle");
var element = document.getElementById('container');

```

```

for (var i = 0; i < colors.length; i++) {
    colors[i].addEventListener('click', changeColor);
}

```

```

for (var i = 0; i < fontSizes.length; i++) {
    fontSizes[i].addEventListener('click', changeFontSize);
}

```

```

for (var i = 0; i < fontStyles.length; i++) {
    fontStyles[i].addEventListener('click', changeFontStyle);
}

```

```

function changeColor() {
    // console.log(this.innerHTML);
    element.style.color = this.innerHTML;
}

```

```

function changeFontSize() {

```

```
// console.log(this.innerHTML);
element.style.fontSize = this.innerHTML + "px";
}
```

```
function changeFontStyle() {
// console.log(this.innerHTML);
element.style.fontFamily = this.innerHTML;
}
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:

Practical no. 5: Action on clicking the buttons

"A moment of happiness, you and I sitting on the verandah, apparently two, but one in soul, you and I. We feel the flowing water of life here, you and I, with the garden's beauty and the birds singing. The stars will be watching us, and we will show them what it is to be a thin crescent moon. You and I unselfed, will be together, indifferent to idle speculation, you and I. The parrots of heaven will be cracking sugar as we laugh together, you and I. In one form upon this earth, and in another form in a timeless sweet land."

Red	Blue	Green
10	20	30
'Courier New', monospace	'Brush Script MT', cursive	Verdana, sans-serif

Question 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.

Code :

```
<!DOCTYPE html>
<html>

<head>
<meta charset="utf-8">
<title>Practical 6</title>
<style type="text/css">
.container {
width: 60%;
margin: auto;
border: 1px solid black;
border-radius: 8px;
padding: 50px;
background-color: rgb(161, 238, 161);
```



```

}

.btn-submit {
border-radius: 5px;
color: rgb(0, 132, 255);
background: rgb(243, 154, 154);
font-weight: bold;
font-size: 1rem;
margin: 20px;
}

@media(width ≤ 575) {
.container {
width: 84%;
}
}
</style>
</head>

<body>
<div class="container">
<h1>PET'S DATABASE</h1>
<hr>
<label for="name">Pet's Name: </label>
<input type="text" name="name"><br><br>
<label for="age">Age: </label>
<input type="number" name="age"><br><br>
<label for="weight">Weight: </label>
<input type="number" name="weight" class=""><br><br>
<label for="type">Pet type: </label>
<input type="text" name="type"><br><br>
<label for="likes">Likes: </label>
<input type="text" name="likes"><br>
<button class="btn-submit" onclick="display()">Submit</button>
</div>

<script type="text/javascript">

function display() {
// event.preventDefault();
var pet = {};
var input_fields = document.getElementsByTagName('input');
for (var i = 0; i < input_fields.length; i++) {
pet[input_fields[i].name] = input_fields[i].value;
}
console.log(pet);
}

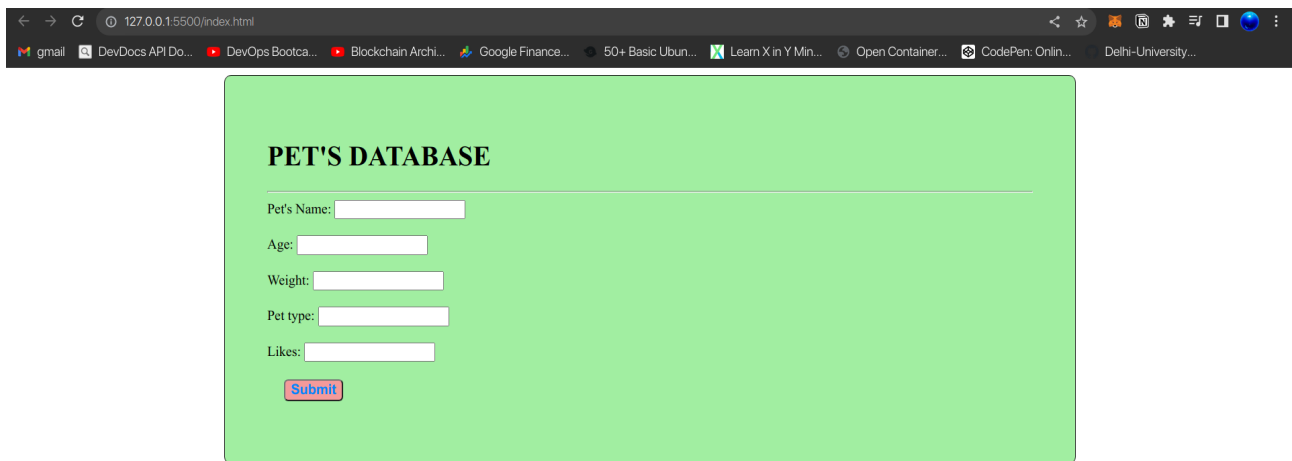
</script>

</body>

</html>

```

OUTPUT:



Question 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.

Sol:

html file

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title>Practical 7</title>
<style type="text/css">
#pet-data{
border: 1px solid black;
border-radius: 10px;
border-collapse: collapse;
}
td{
border: 1px solid black;
border-collapse: collapse;
}
#btn-fetch{
margin-top: 20px;
font-size: 24px;
font-weight: bold;
background-color: black;
color: white;
border-radius: 8px;
}
</style>
</head>
<body>
<!-- <table id="pet-data">
<thead>
<tr>
<td>ID</td>
<td>Title</td>
<td>Body</td> -->
<!-- <td>Type</td>
<td>Likes</td> -->
```

```

<!-- </tr>
</thead>
<tbody id="content">
</tbody>
</table> -->

<div id="content">
</div>

<button id="btn-fetch">Fetch Data</button>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script type="text/javascript">
// $("#btn-fetch").click(function(){
// $.ajax({
// type: "Get",
// url: "https://jsonplaceholder.typicode.com/posts",
// dataType: "json",
// success: function(result){
// console.log(result);
// }
// });
// });
var btnFetch = document.getElementById('btn-fetch');
var content = document.getElementById('content');

btnFetch.addEventListener('click', ()=>{
const xhr = new XMLHttpRequest();

xhr.open("GET", '/pet.json', true);

xhr.onload = ()=>{
console.log(xhr.responseText);
renderHtml(JSON.parse(xhr.responseText));
}

xhr.send();

});

function renderHtml(data){
content.innerHTML = "";
for (var i = 0; i <= data.length; i++) {
let p = document.createElement('p');
let htmlpart = "";
htmlpart += data[i].name+" is a "+data[i].type+" with age "+data[i].age+" years and weight "+data[i].weight+"kg and likes "+data[i].likes;
p.innerHTML = htmlpart;
content.append(p);
// console.log(tr);
htmlpart="";
}

}

</script>

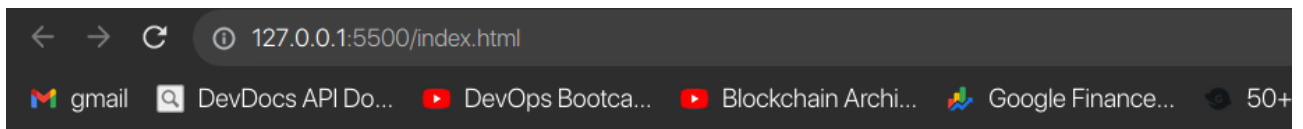
</body>
</html>

```

json file:

```
[
  {
    "name": "Pluto",
    "age": 3,
    "weight": 12,
    "type": "Pavellion",
    "likes": "eating, playing with ball"
  },
  {
    "name": "Hulk",
    "age": 4,
    "weight": 22,
    "type": "German Sefford",
    "likes": "Biting, eating flesh"
  },
  {
    "name": "Jerry",
    "age": 2.5,
    "weight": 8,
    "type": "cat",
    "likes": "sleeping"
  },
  {
    "name": "Tom",
    "age": 0.5,
    "weight": 0.7,
    "type": "Mouse",
    "likes": "running, eating cheese"
  },
  {
    "name": "Chiku",
    "age": 1,
    "weight": 1.2,
    "type": "Rabbit",
    "likes": "running, eating carrot"
  }
]
```

Output:



Pluto is a Pavellion with age 3 years and weight 12kg and likes eating, playing with ball

Hulk is a German Sefford with age 4 years and weight 22kg and likes Biting, eating flesh

Jerry is a cat with age 2.5 years and weight 8kg and likes sleeping

Tom is a Mouse with age 0.5 years and weight 0.7kg and likes running, eating cheese

Chiku is a Rabbit with age 1 years and weight 1.2kg and likes running, eating carrot

Fetch Data

Question 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.

Code:

```
<!DOCTYPE html>
<html>

<head>
<meta charset="utf-8">
<title>Practical 8</title>
<style type="text/css">
.container {
width: 70%;
margin: auto;
align-items: center;
background-color: #bd6443;
padding-bottom: 10px;
}

.info-table {
```

```
width: 80%;
margin: auto;
border: 3px solid rgb(238, 214, 3);
border-collapse: collapse;
margin-top: 2%;
margin-bottom: 2%;
}
```

```
.table-row {
width: 100%;
margin: auto;
}
```

```
.table-data {
width: 50%;
border: 2px solid rgb(176, 244, 4);
border-collapse: collapse;
}
#btn-style{
background-color : rgb(87, 187, 241);
color: rgb(0, 0, 0);
}
</style>
</head>
```

```
<body>
<div>
<h1 class="heading">Bsc (Hons) Computer Science</h1>
<table>
<tr>
<td>Fees</td>
<td>33000</td>
</tr>
<tr>
<td>Eligibility Criteria</td>
<td>Passed 12th from recognized board</td>
</tr>
<tr>
<td>Subjects and credit scores</td>
<td>
<table>
<tr>
<th>Subject</th>
<th>Credit score</th>
</tr>
<tr>
<td>Internet Technologies</td>
<td>6</td>
</tr>
<tr>
<td>Theory of computation</td>
<td>6</td>
</tr>
<tr>
<td>Data analysis and visualization</td>
<td>4</td>
</tr>
<tr>
<td>Digital image processing</td>
<td>4</td>
</tr>
</table>
</td>
```

```

</tr>
<tr>
<td>Future Opportunities</td>
<td>Software Engineer, teacher</td>
</tr>
</table>
</div>

```

```

<button id="btn-style">
Style Page
</button>

```

```

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script type="text/javascript">
$(document).ready(function () {
$('#btn-style').click(function () {
$("div").addClass('container');
$("table").addClass('info-table');
$("tr").addClass('table-row');
$("td").addClass('table-data');
$(".heading").css({
"textAlign": 'center'
});
});
});

```

```

});
</script>

```

```

</body>

```

```

</html>

```

OUTPUT:



Bsc (Hons) Computer Science											
Fees	33000										
Eligibility Criteria	Passed 12th from recognized board										
Subjects and credit scores	<table> <tr> <th>Subject</th><th>Credit score</th></tr> <tr> <td>Internet Technologies</td><td>6</td></tr> <tr> <td>Theory of computation</td><td>6</td></tr> <tr> <td>Data analysis and visualization</td><td>4</td></tr> <tr> <td>Digital image processing</td><td>4</td></tr> </table>	Subject	Credit score	Internet Technologies	6	Theory of computation	6	Data analysis and visualization	4	Digital image processing	4
Subject	Credit score										
Internet Technologies	6										
Theory of computation	6										
Data analysis and visualization	4										
Digital image processing	4										
Future Opportunities	Software Engineer, teacher										

Style Page

Question 9:

code:

```

<!doctype html>

```



```
<html lang="en">
```

```
<head>
```

```
<meta charset="utf-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<link href="//maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" rel="stylesheet" id="bootstrap-css">
```

```
<script src="//maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
```

```
<script src="//cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
```

```
</head>
```

```
<body>
```

```
<link rel="stylesheet"
```

```
href="//cdnjs.cloudflare.com/ajax/libs/fancybox/2.1.5/jquery.fancybox.min.css"
```

```
media="screen">
```

```
<script src="//cdnjs.cloudflare.com/ajax/libs/fancybox/2.1.5/jquery.fancybox.min.js"></script>
```

```
<div class="container page-top">
```

```
<div class="row">
```

```
<div class="col-lg-3 col-md-4 col-xs-6 thumb">
```

```
<a href="https://images.pexels.com/photos/62307/air-bubbles-diving-underwater-blow-62307.jpeg?"
```

```
auto=compress&cs=tinysrgb&h=650&w=940"
```

```
class="fancybox" rel="lightbox">
```

```

```

```
</a>
```

```
</div>
```

```
<div class="col-lg-3 col-md-4 col-xs-6 thumb">
```

```
<a href="https://images.pexels.com/photos/38238/maldives-ile-beach-sun-38238.jpeg?"
```

```
auto=compress&cs=tinysrgb&h=650&w=940"
```

```
class="fancybox" rel="lightbox">
```

```

```

```
</a>
```

```
</div>
```

```
<div class="col-lg-3 col-md-4 col-xs-6 thumb">
```

```
<a href="https://images.pexels.com/photos/158827/field-corn-air-frisch-158827.jpeg?"
```

```
auto=compress&cs=tinysrgb&dpr=2&h=650&w=940"
```

```
class="fancybox" rel="lightbox">
```

```

```

```
</a>
```

```
</div>
```

```
<div class="col-lg-3 col-md-4 col-xs-6 thumb">
```

```
<a href="https://images.pexels.com/photos/302804/pexels-photo-302804.jpeg?"
```

```
auto=compress&cs=tinysrgb&dpr=2&h=650&w=940"
```

```
class="fancybox" rel="lightbox">
```

```

```

```
</a>
</div>
```

```
<div class="col-lg-3 col-md-4 col-xs-6 thumb">
<a href="https://images.pexels.com/photos/1038914/pexels-photo-1038914.jpeg?
auto=compress&cs=tinysrgb&h=650&w=940"
class="fancybox" rel="lighthbox">

</a>
</div>
```

```
<div class="col-lg-3 col-md-4 col-xs-6 thumb">
<a href="https://images.pexels.com/photos/414645/pexels-photo-414645.jpeg?
auto=compress&cs=tinysrgb&h=650&w=940"
class="fancybox" rel="lighthbox">

</a>
</div>
```

```
<div class="col-lg-3 col-md-4 col-xs-6 thumb">
<a href="https://images.pexels.com/photos/56005/fiji-beach-sand-palm-trees-56005.jpeg?
auto=compress&cs=tinysrgb&dpr=2&h=650&w=940"
class="fancybox" rel="lighthbox">

</a>
</div>
```

```
<div class="col-lg-3 col-md-4 col-xs-6 thumb">
<a href="https://images.pexels.com/photos/1038002/pexels-photo-1038002.jpeg?
auto=compress&cs=tinysrgb&dpr=2&h=650&w=940"
class="fancybox" rel="lighthbox">

</a>
</div>
```

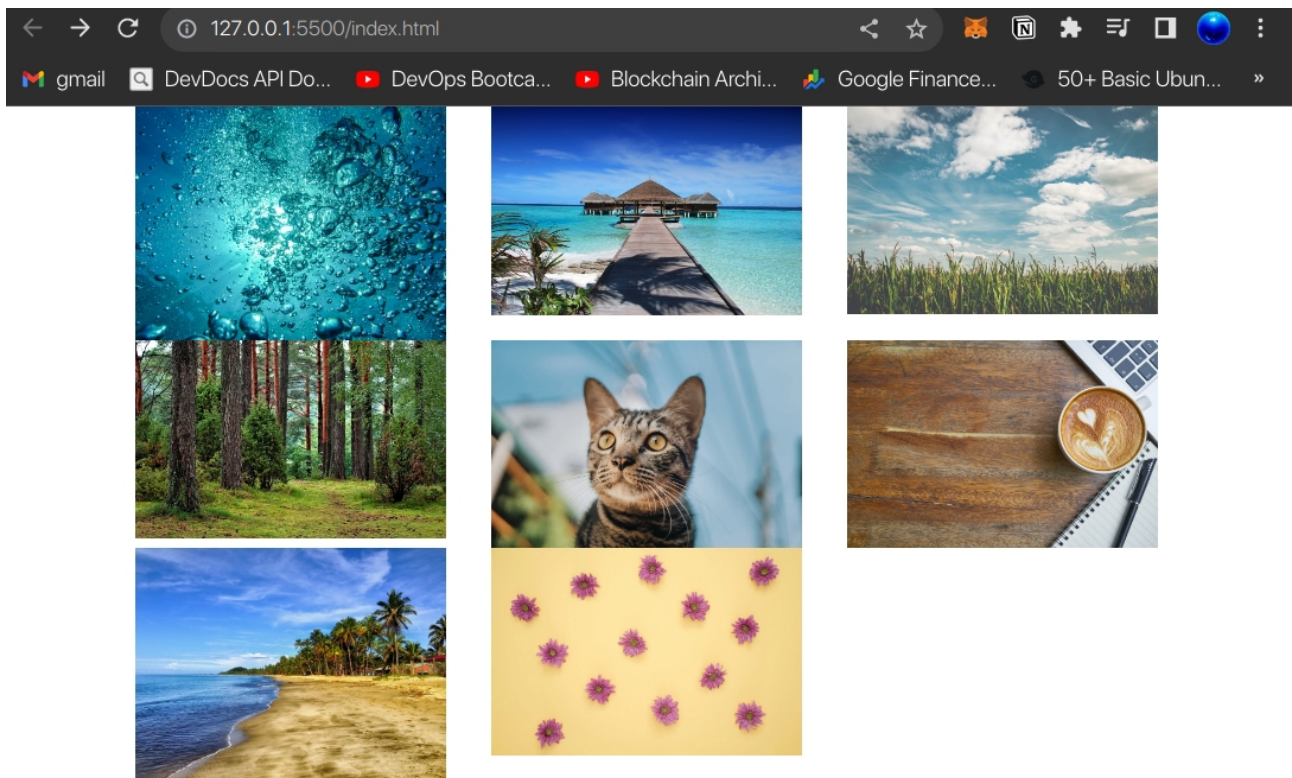
```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

output:



Question 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.

Sol:

```
var http = 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'));
```

Question 11:

Create index.html file containing two forms for SignIn and SignUp. Submitting SignIn form should search for credentials in mysql database using server created in previous practical. On successful signin, a welcome page should be displayed. Submitting SignUp form should insert new entry for credentials in mysql database using server created in previous practical. On successful signup, user should be returned back to index.html.

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>SignIn-SignUp Form</title>
<link rel="stylesheet" href="style.css" />
</head>

<body>
<section class="container">
<h2>SignIn Form</h2>
<form class="form">
<div>
<label for="username">Username:</label>
<input type="text" id="username" placeholder="Enter username" />
</div>
<div>
<label for="password">Password:</label>
<input type="password" id="password" placeholder="Enter password" />
</div>
<button class="submit-btn">Submit</button>
</form>
</section>

<section class="container">
<h2>SignUp Form</h2>
<form class="form">
<div>
<label for="name">Name:</label>
<input type="text" id="name" placeholder="Enter name" />
</div>
<div>
<label for="email">E-mail:</label>
<input type="email" id="email" placeholder="Enter e-mail" />
</div>
<div>
<label for="new-username">Username:</label>
<input type="text" class="new-username" placeholder="Create username" />
</div>
<div>
<label for="new-password">Password:</label>
<input type="password" id="new-password" placeholder="Enter password" />
</div>
</form>
</section>
```

```

<div>
<label for="re-password">Password (confirm):</label>
<input type="password" id="re-password" placeholder="Enter password again" />
</div>
<button class="submit-btn">Submit</button>
</form>
</section>
</body>

</html>

```

CSS :

```

/*
SPACING SYSTEM (px)
2 / 4 / 8 / 12 / 16 / 24 / 32 / 48 / 64 / 80 / 96 / 128
FONT SIZE SYSTEM (px)
10 / 12 / 14 / 16 / 18 / 20 / 24 / 30 / 36 / 44 / 52 / 62 / 74 / 86 / 98
*/

/*
MAIN COLOR: #099268
GREY COLOR: #087f5b
ACCENT: #20c997, #e6fcf5
*/
* {
margin: 0;
padding: 0;
box-sizing: border-box;
}
body {
font-family: sans-serif;
width: 850px;
margin: 40px auto;
display: grid;
grid-template-columns: repeat(2, 1fr);
column-gap: 40px;
align-items: center;
}
.container {
background-color: #e6fcf5;
padding: 40px;
border-radius: 30px;
box-shadow: 0 20px 30px 0 rgb(0, 0, 0, 0.07);
}
.form {
display: grid;
grid-template-columns: 1fr;
justify-items: start;
align-items: center;
row-gap: 30px;
}
h2 {
background-color: #099268;
display: inline-block;
padding: 20px;
border-radius: 20px;
color: #e6fcf5;
margin-bottom: 52px;
word-spacing: 2px;
letter-spacing: 0.5px;
}

```

```

.submit-btn {
font-size: 18px;
text-transform: uppercase;
background-color: #099268;
border: none;
color: #fff;
padding: 10px 20px;
border-radius: 10px;
align-self: end;
letter-spacing: 2px;
}

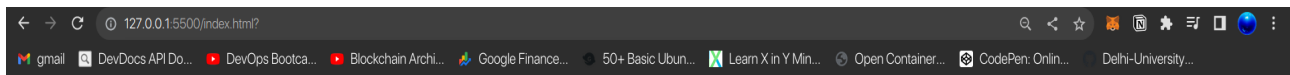
.submit-btn:hover {
background-color: #087f5b;
cursor: pointer;
}

label {
display: inline-block;
margin-bottom: 8px;
color: #20c997;
letter-spacing: 0.5px;
font-size: 16px;
}

.form input {
padding: 10px;
border-radius: 10px;
width: 300px;
height: 50px;
border: none;
font-size: 18px;
}

```

Output:



SignIn Form

Username:

Enter username

Password:

Enter password

SUBMIT

SignUp Form

Name:

Enter name

E-mail:

Enter e-mail

Username:

Create username

Password:

Enter password

Password (confirm):

Enter password again

SUBMIT