PRACTICALS

INTERNET TECHNOLOGIES

SUBMITTED BY:

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ROLL NUMBER: 3913

BATCH: SEMESTER V

COURSE: B.SC. (H) COMPUTER SCIENCE

SUBMITTED TO:

DR. APARNA DATT

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>ipconfig

Windows IP Configuration


Wireless LAN adapter Local Area Connection* 3:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 12:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . : www.tendawifi.com
   Link-local IPv6 Address . . . . . : fe80::127b:db08:124b:3a09%14
   IPv4 Address. . . . . . . . . . . : 192.168.0.109
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.0.1

Ethernet adapter Bluetooth Network Connection:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :
```

This IP belongs to class C

Network Address range of class C- 192-223

Number of hosts= 2^8=256 (As first three octets are reserved for network addresses in class C)

Range of addresses available = 192.168.0.1-192.168.0.254

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.

ping

```
C:\Windows\System32>ping google.com

Pinging google.com [142.250.194.238] with 32 bytes of data:
Reply from 142.250.194.238: bytes=32 time=4ms TTL=117
Reply from 142.250.194.238: bytes=32 time=5ms TTL=117
Reply from 142.250.194.238: bytes=32 time=6ms TTL=117
Reply from 142.250.194.238: bytes=32 time=26ms TTL=117

Ping statistics for 142.250.194.238:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 4ms, Maximum = 26ms, Average = 10ms

C:\Windows\System32>
```

arp -a for finding different systems on my network

```
C:\Windows\System32>arp -a

Interface: 192.168.0.109 --- 0xe
  Internet Address      Physical Address      Type
  192.168.0.1           04-95-e6-bc-d7-c8     dynamic
  192.168.0.255         ff-ff-ff-ff-ff-ff     static
  224.0.0.22            01-00-5e-00-00-16     static
  224.0.0.251           01-00-5e-00-00-fb     static
  224.0.0.252           01-00-5e-00-00-fc     static
  239.255.255.250       01-00-5e-7f-ff-fa     static
  255.255.255.255       ff-ff-ff-ff-ff-ff     static
```

Traceroute

```
C:\Windows\System32>tracert google.com

Tracing route to google.com [142.250.194.46]
over a maximum of 30 hops:

  1      9 ms      1 ms      1 ms  192.168.0.1
  2     35 ms      6 ms      3 ms  10.250.112.1
  3      *         *         *     Request timed out.
  4     13 ms     12 ms     34 ms  103.240.232.1
  5     19 ms      7 ms      5 ms  74.125.118.188
  6     10 ms      5 ms      7 ms  142.251.77.23
  7      5 ms      5 ms      6 ms  142.251.52.229
  8      5 ms      3 ms      5 ms  del12s02-in-f14.1e100.net [142.250.194.46]

Trace complete.
```

List of TCP/IP ports

```
C:\Windows\System32>netstat -b -a

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    0.0.0.0:135            Hardik:0               LISTENING
  RpcSs
 [svchost.exe]
  TCP    0.0.0.0:445            Hardik:0               LISTENING
 Can not obtain ownership information
  TCP    0.0.0.0:3307           Hardik:0               LISTENING
 [mysqld.exe]
  TCP    0.0.0.0:5040           Hardik:0               LISTENING
  CDPSvc
 [svchost.exe]
  TCP    0.0.0.0:33060          Hardik:0               LISTENING
 [mysqld.exe]
  TCP    0.0.0.0:49664          Hardik:0               LISTENING
 [lsass.exe]
  TCP    0.0.0.0:49665          Hardik:0               LISTENING
 Can not obtain ownership information
  TCP    0.0.0.0:49666          Hardik:0               LISTENING
  Schedule
 [svchost.exe]
  TCP    0.0.0.0:49667          Hardik:0               LISTENING
  EventLog
 [svchost.exe]
  TCP    0.0.0.0:49668          Hardik:0               LISTENING
 [spoolsv.exe]
  TCP    0.0.0.0:49669          Hardik:0               LISTENING
 Can not obtain ownership information
  TCP    0.0.0.0:49670          Hardik:0               LISTENING
 [AsusLinkNear.exe]
  TCP    0.0.0.0:49671          Hardik:0               LISTENING
 [AsusLinkNear.exe]
  TCP    127.0.0.1:27017        Hardik:0               LISTENING
 [mongod.exe]
  TCP    127.0.0.1:49672        Hardik:49673           ESTABLISHED
 [mysqld.exe]
  TCP    127.0.0.1:49673        Hardik:49672           ESTABLISHED
 [mysqld.exe]
  TCP    127.0.0.1:49674        Hardik:49675           ESTABLISHED
 [mysqld.exe]
  TCP    127.0.0.1:49675        Hardik:49674           ESTABLISHED
 [mysqld.exe]
  TCP    192.168.0.109:139      Hardik:0               LISTENING
 Can not obtain ownership information
  TCP    192.168.0.109:49700    20.198.119.84:https    ESTABLISHED
```

```
 TCP     192.168.0.109:49994     117.18.237.29:http      CLOSE_WAIT
[SearchHost.exe]
 TCP     192.168.0.109:50201     104.16.89.5:https       TIME_WAIT
 TCP     192.168.0.109:50207     edge:https              ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50209     20.247.216.215:https    TIME_WAIT
 TCP     192.168.0.109:50210     13.107.227.48:https     ESTABLISHED
[TextInputHost.exe]
 TCP     192.168.0.109:50211     117.18.237.29:http      ESTABLISHED
[TextInputHost.exe]
 TCP     192.168.0.109:50216     ec2-18-204-45-124:https  ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50217     server-13-227-254-70:https  ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50218     ec2-18-204-45-124:https  ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50224     del12s07-in-f14:https   ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50225     del12s07-in-f14:https   TIME_WAIT
 TCP     192.168.0.109:50226     del12s07-in-f14:https   TIME_WAIT
 TCP     192.168.0.109:50227     del12s08-in-f14:https   ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50228     del12s04-in-f14:https   ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50229     ec2-35-83-30-109:https  ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50230     ec2-35-83-30-109:https  ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50231     151.101.65.69:https     ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50232     del11s10-in-f10:https   ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50233     192.0.73.2:https        ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50235     151.101.24.193:https    ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50236     151.101.24.193:https    ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50238     151.101.24.193:https    ESTABLISHED
[brave.exe]
 TCP     192.168.0.109:50239     stackoverflow:https     ESTABLISHED
[brave.exe]
 TCP     [::]:135                Hardik:0                LISTENING
 RpcSs
[svchost.exe]
 TCP     [::]:445                Hardik:0                LISTENING
Can not obtain ownership information
 TCP     [::]:3307               Hardik:0                LISTENING
```

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.

WEBPAGE LINK: https://hardikbhanot.github.io/Portfolio/index.html

HTML

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <!-- https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css -->
    <!-- Bootstrap CSS -->
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css"
      rel="stylesheet"
      integrity="sha384-giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"
      crossorigin="anonymous"
    />
    <link rel="shortcut icon" href="favicon2.ico" type="image/x-icon" />

    <meta name="viewport" content="width=device-width,initial-scale=1" />
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css" integrity="sha384-wvfXpqpZZVQGK6TAh5PVlGOfQNHSoD2xbE+QkPxCAFlNEevoEH3Sl0sibVcOQVnN" crossorigin="anonymous">
    <title>Hardik Bhanot</title>
    <link rel="shortcut icon" href="favicon2.ico" type="image/x-icon" />
    <link rel="stylesheet" href="style.css" />
    <link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=BioRhyme:wght@700&display=swap" rel="stylesheet">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.2/css/all.min.css" integrity="sha512-HK5fgLBL+xu6dm/Ii3z4xhlSUyZgTT9tuc/hSrtw6uzJOvgRr2a9jyxxT1ely+B+xFAmJKVSTbpM/CuL7qxO8w==" crossorigin="anonymous" />
  </head>
  <body>
    <header>
      <div class="container">
      <nav class="navbar">

        <a class="navbar-brand logo" href="index.html">Portfolio.</a>

        <div class="burger">

          <div class="line"></div>
          <div class="line"></div>
          <div class="line"></div>
        </div>
        <ul class="nav-links navbar-nav">
          <li class="nav-link nav-item"><a href="index.html">Home</a></li>
          <li class="nav-link nav-item"><a href="#About">About</a></li>
          <li class="nav-link nav-item"><a href="#Contact">Contact</a></li>
        </ul>
      </nav>
    </div>
    </header>
```

```html
  <section class="home">
    <h1>
  <em class="hello">Hey There,<br></em>I'm <em class="name">Hardik</em>.<br> A Web Developer.
</h1>
<a href="#About">
<div class="scrolldown"></div>
</a>
  </section>

  <section class="about" id="About">

    <h2>About Me</h2>

    <div class="row-2">
  <div class="col">
  <p>
    Hi,I am Hardik.<br>A Web Developer and a student of Computer science from<br> P.G.D.A.V. College,Delhi
University.<br>
  I like to take on challenges and try out different things.<br>
  I like to watch tv series and cricket in my freetime.
  </p>
  <a href="#Contact"><button class="btn" style="margin-bottom: 20px;">Contact </button></a>
 </div>
 <div class="col">

   <img src="sample-image.jpg" alt="">

 </div>
 </div>
 </div>

 </section>
<section class="skills" id="Skill">

  <h2 class="my-skills text-center">
   My Skills
  </h2>
  <div class="wrap">
   <div class="bar">
     <h3>HTML</h3>
     <span></span>

   </div>
   <div class="bar">
     <h3>CSS</h3>
     <span></span>

   </div>
   <div class="bar">
     <h3>JavaScript</h3>
     <span></span>

   </div>
   <div class="bar">
     <h3>C++</h3>
     <span></span>
```

```html
      </div>
    </div>


    </section>


    <section class="contact" id="Contact">
<div class="svg">
    <svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 1440 320"><path fill="#fff" fill-opacity="1"
d="M0,224L30,202.7C60,181,120,139,180,149.3C240,160,300,224,360,256C420,288,480,288,540,250.7C600,21
3,660,139,720,122.7C780,107,840,149,900,176C960,203,1020,213,1080,197.3C1140,181,1200,139,1260,138.7C
1320,139,1380,181,1410,202.7L1440,224L1440,0L1410,0C1380,0,1320,0,1260,0C1200,0,1140,0,1080,0C1020,0,
960,0,900,0C840,0,780,0,720,0C660,0,600,0,540,0C480,0,420,0,360,0C300,0,240,0,180,0C120,0,60,0,30,0L0,0Z"
></path></svg>
</div>
<div class="contact-me text-center">
<span class="contact-text">Contact Me</span>
</div>
<div class="social">
  <ul>
    <li>
    <a href="mailto:hardik.bhanot1@gmail.com" target="_blank"><i class="fas fab fa-envelope fa-2x"></i></a>
  </li>
    <li>
    <a href="https://www.linkedin.com/in/hardik-bhanot/" target="_blank"><i class="fab fa-linkedin fa-
6x"></i></a>
  </li>
    <li>
    <a href="https://www.instagram.com/_.h.a.r.d.i.k.__/"  target="_blank"><i class="fab fa-
instagram"></i></a>
  </li>
    <li>
    <a href="https://github.com/Hardikbhanot" target="_blank"><i class="fab fa-github"></i></a>
  </li>
</ul>
</div>
</section>
  <!--Start of Tawk.to Script-->
<script type="text/javascript">
var Tawk_API=Tawk_API||{}, Tawk_LoadStart=new Date();
(function(){
var s1=document.createElement("script"),s0=document.getElementsByTagName("script")[0];
s1.async=true;
s1.src='https://embed.tawk.to/6192210f6885f60a50bbd259/1fkhd29fr';
s1.charset='UTF-8';
s1.setAttribute('crossorigin','*');
s0.parentNode.insertBefore(s1,s0);
})();
</script>
<!--End of Tawk.to Script-->
<script src="index.js"></script>
</body>
</html>
```

CSS-

```css
*,
*::before,
```

```css
*::after {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  width: 100%;
  overflow-x: hidden;
}

html {
  font-family: "Roboto", sans-serif;
  font-size: 10px;
  scroll-behavior: smooth;
}

header {
  width: 100%;
  position: fixed;
  top: 0;
  left: 0;
  transition: background-color 0.5s ease;
  z-index: 1000;
}


  nav {
     width: 100%;
     height: 10rem;
     display: flex;
     align-items: center;
     /* float: right;
       text-align: right; */

     justify-content: space-between;
     border-bottom: 2px solid rgba(255, 255, 255, 0.05);
     transition: height 0.5s ease;
   }

.nav-links{
   display: flex;
   list-style: none;
   width: 50%;
   height: 100%;
   justify-content: space-around;
   align-items: center;
   margin-left: auto;
   flex-direction: row;
}

.nav-links li a{
   text-decoration: none;
   color: aliceblue;
   font-size: 1.8rem;
   list-style: none;
}
```

```css
.nav-link{
    position: relative;
}
.nav-link::after {
    content: " ";
    width: 80%;
    height: 2px;
    background-color: #fff;
    position: absolute;
    left: 6.5px;
    bottom: 4px;
    transform: scaleX(0);
    transform-origin: left;
    transition: transform 0.5s ease;
}


.nav-link:hover::after {
    transform: scaleX(1);
 }

 .logo{
    margin-left: 10%;
    margin-top: 1%;
 }
nav .logo {
    font-size: 3rem;
    font-family: 'BioRhyme', serif;


    align-items: center;
    color: #fff;
  text-decoration: none;
 }

 .scrolling-active {
   background-color: #fff;
   box-shadow: 0 3px 1rem rgba(0, 0, 0, 0.1);
 }

 .scrolling-active nav {
   height: 6.6rem;
 }
 .scrolling-active .burger .line{
    background-color: #000;
 }
 .scrolling-active nav a {
   color: #313131;
   padding-bottom: 4%;
 }

 .scrolling-active nav .logo{
   margin-bottom: 3px;
   padding: 0;
 }

 .scrolling-active .nav-link::after {
```

```css
    background-color: #313131;
}

.home {
  width: 100%;
  height: 100vh;
  background: linear-gradient(rgba(0, 0, 0, 0.7), rgba(0, 0, 0, 0.5)),
    url("img2.jpg") center no-repeat;
  background-size: cover;
  position: relative;
}

.home::after {
  content: "";
  width: inherit;
  height: inherit;
  position: absolute;
  top: 0;
  left: 0;
  background-color: rgba(0, 0, 0, 0.5);
}

h1 {
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translate(-50%,-50%);
  font-size: 6rem;
  font-family: "Playfair Display", serif;
  letter-spacing: 0.3rem;
  line-height: 10rem;
  color: #fff;
  z-index: 1;
}

.hello {
  font-size: 5rem;
  color: blanchedalmond;
  font-style: normal;
}

.name {
  font-style: normal;
  font-weight: 800;
  color: floralwhite;
}




.scrolldown {
  height: 45px;
  border: 2px;
  width: 30px;
  background-color: white;
  position: absolute;
  left: 50%;
  bottom: 5px;
```

```css
  z-index: 1;
  border-radius: 50px;
  cursor: pointer;
}

.scrolldown::before,
.scrolldown::after {
  content: "";
  position: absolute;
  top: 20%;
  left: 50%;
  border: 2px solid black;
  height: 10px;
  width: 10px;
  transform: translate(-50%, -100%) rotate(45deg);
  border-top: transparent;
  border-left: transparent;
  animation: scrolldown 1s ease-in-out infinite;
}
.scrolldown::after {
  top: 30%;
  animation-delay: 0.5s;
}

@keyframes scrolldown {
  0% {
    opacity: 0;
  }
  30% {
    opacity: 1;
  }
  60% {
    opacity: 1;
  }
  100% {
    opacity: 0;
    top: 90%;
  }
}




.about{
  width: 100%;
  height:100vh ;
  box-sizing: border-box;
  /* display: flex; */
  align-items: center;
  justify-content: space-between;
  padding: 50px 3% 50px 3%;
  /* margin-bottom: 30px; */
  /* position: relative; */
  background-color: #e5e5e5e5;
  /* box-shadow: 5px 10px 8px 10px #888888; */
}

.about-text{
```

```css
  font-family:Calibri;
  width: 50%;
  background-color: #fff;
  }

  .about-sec{
    background-color: #fff;
  }
.about-text .btn{
 /* top: 69%; */
 /* position:absolute; */
}
.about h2{
 font-size:5rem;
 color: #2e302f;
 /* position: static; */
 padding-top: 20px;
 margin-left: 50%;
 transform: translateX(-50%);
 display: inline-block;
}


.row-2{
   display: flex;
   flex-direction: row;
}
.about .col img{
   float: right;
}

.about h2:after{
 content: '';
 background:linear-gradient(#36096d 0%, #009FFD 74%);
 position: absolute;
  height: 3%;
  width: 60%;
  align-self: center;
  /* top: 85%;
   */
  bottom: -5%;
  left: 25%;
  transform: scaleX(0.3);
  transition: transform 0.5s ease  ;
}
.about h2:hover::after{
 transform: scaleX(1);
}
.about p{
 font-size: 3rem;
 color: #0c0c17;
 padding-bottom: 4rem;
 top: 30%;
/* position: absolute; */

}

.about  img{
```

```css
  height: 439px;
  /* position: absolute;
top: 23%;
left: 65%; */
}

.btn {
  font-size:16px ;
  font-family: 'Rubik',sans-serif;
  font-weight: 600;
  padding: 12px 35px;
  color: #fff;
  border-radius:43px ;
  transition: nowrap;
  border: none;
  cursor: pointer;
}

.btn:hover{
-webkit-transform: scale(1.1);
transform: scale(1.1);

}
.btn{
  background:linear-gradient(to left,#36096d 0%, #009FFD 74%);
}

.skills{
  width: 100%;
  height: 70vh;
}
.skills{
  list-style: none;
  font-family: sans-serif;
  /* width: 500px; */
  margin: 0px auto;
  top: 50%;
  position: block;
  background: #333;

}

/* ---------------------------------------------------------------------- */


.my-skills{
  font-size: 5rem;
  color: aliceblue;
width: 100%;
position: relative;
/* left: 37%;
top: 5%; */
letter-spacing: 4px;
font-weight: 600;

}
/* .my-skills::after{
  content: '';
```

```css
    height: 3px;
    bottom: -10%;
    left: 43%;
    background: linear-gradient(to left,#a8d8c0 10%,#64a19e 60%,#254f83 10% );
    position: absolute;
    width: 10%;
    animation: line 5s ease-in;
} */

/* @keyframes line{
  from{
    width:10%;
  }
  to{
    width:50%;
  }
}
 */
/* .skill{
  background-color: rgb(182, 147, 147);
  font-family: Open sans,sans-serif;
} */
.wrap{
  max-width:60%;
  margin:115px auto 35px;

}

.bar{
  color: #fff;
  font-weight: 500;
  font-size: 16px;
  width: 100%;
  font-size: 16px;
  position:relative;
  margin-bottom: 15px;
  display: inline-block;

}
.bar span{
  position: relative;
  display: inline-block;
  width: 100%;
  height: 25px;
  background: #000;
  border-radius: 50px;

}
.bar span::before{
  position: absolute;
  content:'';
  top: 6px;
  left: 5px;
  width: 80%;
  height: 50%;
  background: linear-gradient(to left ,#36096d 0%, #37d5d6 74%);
  border-radius: 50px;
```

```css
    animation: bar 6s ease;
}
@keyframes bar{
 0%{
    width:0%;
 }
}
.bar:nth-child(1) span::before{
  width: 80%;
}
.bar:nth-child(2) span::before{
  width: 70%;
}
.bar:nth-child(3) span::before{
  width: 55%;
}
.bar:nth-child(4) span::before{
  width: 60%;
}

/* ---------------------------------------------- */


.contact{
  height: 110vh;
  width: 100%;
  background:linear-gradient(45deg,#36096d 7%, #009FFD 74%);
}
.contact h2{
  width: 40%;
}
.contact-text{
font-size: 6rem;
color: white;
width: 25%;
left: 40%;

}
.social{
  /* height: 30vh; */
  align-items: center;
}
 body section.contact  div.social {
  display: relative !important;
  z-index: 1;
}
.social ul{
/* position: relative !important; */
/* transform: translate(-50%,-50%); */
display: flex;
padding: 0;
margin-top: 10%;
width: fit-content;
margin-left: 50%;
transform: translateX(-50%);
}
```

```css
.social ul li{
   /* flex-direction: column; */
  list-style: none;
  margin: 0 40px;
  /* position:  relative !important; */

}
.social ul li .fab{
font-size: 30px;
line-height: 60px;
transition: 0.5s;
color: #000;
/* z-index: 1; */
}
.social ul li a{
  position: relative;
  display: block;
  width: 60px;
  height: 60px;
  border-radius: 50%;
background-color: #fff;
text-align: center;
transition: 0.5s;
box-shadow: 0 5px 4px ,rgba (0,0,0,1);
}
.social ul li  .fab:hover{
  color: #fff;
  transform: translate(0,-10px);

}
.social ul li a:hover{
  width: 64px;
  height: 64px;
}
.social ul li:nth-child(1) a:hover{
background-color:#c71610
}
.social ul li:nth-child(2) a:hover{
  background-color: #0077B5;
}
.social ul li:nth-child(3) a:hover{
  background-color: #e4405f;
}
.social ul li:nth-child(4) a:hover{
background-color: #171515;
}




@media screen and (max-width:768px){
```

```css
body{
    overflow-x: hidden;
}

.nav-links {
position: absolute;
right: 0px;
height: 100vh;
top: 0rem;
display: flex;
flex-direction: column;
align-items: center;
width: 100%;
transform: translateX(100%);
transition: transformX 0.5s ease;
background-color: linear-gradient(rgb(17, 17, 17), rgb(7, 6, 6));
color: #fff;
transition: all 0.6s ease-out;
pointer-events: none;
}

.scrolling-active .nav-links{
    height:91.2vh;
}

.logo.open{
    display: none;
    pointer-events: none;
}

.nav-links.open{
    transform: translateX(0%);
    pointer-events: all;

}

.nav-link.open{
    color: #fff;
}
.scrolling-active .nav-link.open{
    color: #fff;
}
 .line{

    height: 3px;
    background: white;
    margin: 5px;
    width: 30px;
}

.contact{
    height: 70vh;
}

.contact-text{
    font-size: 4.5rem;
}
nav{
```

```css
            position: relative;
        }

        nav.open{
          background: none;
          display: none;
        }
      .burger{
          position: absolute;
          cursor: pointer;
          right: 5%;
          top: 50%;
          transform: translate(-5%,-50%);
          z-index: 2;
        }




      .row-2{
          flex-direction: column;
          padding: 0;
        }
      .row-2 .col:nth-child(2){
          margin-bottom: 20px;
        }

      .row-2 img{
          height: 300px;
        }
      .about .row:nth-child(2) .col:nth-child(1) {
          margin-top: 30%;
        }

      .about .col img{
          float: none;
          margin-left: 50%;
          transform: translateX(-50%);
        }

      .social ul{
          flex-direction: column;
        }

      .social ul li{
          margin: 10px;
          /* width: 100%; */
        }

      .about p{
          font-size: 2.5rem;
        }
  }
  @media screen and (max-width:550px){
      .about h2{
          font-size: 3rem;
          padding-top: 0;
          padding-bottom: 10px;
        }
```

```css
    .about .row:nth-child(2) .col:nth-child(1) {
        margin-top: 40%;
    }
    .social ul{
        margin-left: 40%;
    }
    .about{
        height: 130vh;
    }
}
@media screen and (max-width:360px){
    .about h2{
        font-size: 2.5rem;
    }


}
```

JAVASCRIPT-

```javascript
const svg= document.querySelector(".svg")
    const width= window.innerWidth
    console.log(width)
    if(width<=768){
        svg.innerHTML=""
    }
const burger = document.querySelector(".burger")
const links =document.querySelector(".nav-links")
const link =document.querySelectorAll(".nav-link")
const logo=document.querySelector(".logo")
const nav= document.querySelector("nav")
burger.addEventListener('click',()=>{
    links.classList.toggle("open")
    link.classList.toggle("fade")
    link.classList.toggle("open")
    logo.classList.toggle("open")
    nav.classList.toggle("open")
})

window.addEventListener('scroll', function () {
    let header = document.querySelector('header');
    let windowPosition = window.scrollY > 0;
    header.classList.toggle('scrolling-active', windowPosition);
})
```

OUTPUTS-

Hey There,

I'm **Hardik**.

A Web Developer.

About Me

Hi,I am Hardik.
A Web Developer and a student of Computer science
from
P.G.D.A.V. College,Delhi University.
I like to take on challenges and try out different
things.
I like to watch tv series and cricket in my freetime.

Contact

My Skills

HTML

CSS

JavaScript

C++

Contact Me

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.

CODE:-

LINK:- https://github.com/Hardikbhanot/IT-PRACTICAL/blob/main/4th.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=, initial-scale=1.0" />
    <title>Table</title>
  </head>
  <body>
    <div class="container"></div>
  </body>
  <script>
    const container = document.getElementsByClassName("container")[0];
    let i = 2;
    let j = 1;
    let multiply_array = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
    let size = 15;
    const timer = setInterval(() => {
      let color = Math.floor(Math.random() * 1000) +90;
      container.innerHTML += `<p
style="font-size:${size}px;color:#${color}">${multiply_array
        .map((item) => item * i)
        .join(" ")}</p> <br>`;
      size+=10;
      i++;
      if (i > 10) {
        clearInterval(timer);
      }
    }, 5000);
  </script>
</html>
```

OUTPUT:

2 4 6 8 10 12 14 16 18 20

3 6 9 12 15 18 21 24 27 30

4 8 12 16 20 24 28 32 36 40

5 10 15 20 25 30 35 40 45 50

6 12 18 24 30 36 42 48 54 60

7 14 21 28 35 42 49 56 63 70

8 16 24 32 40 48 56 64 72 80

9 18 27 36 45 54 63 72 81 90

10 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.

Code:-

```html
<!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>5th Practical</title>
    <style>

.grid-container {
  display: grid;
  justify-content: center;
  grid-template-columns: auto auto auto;
  background-color: #2196F3;
  padding: 10px;
}
.grid-button {
  background-color: rgba(255, 255, 255, 0.8);
  border: 1px solid rgba(0, 0, 0, 0.8);
  padding: 20px;
  font-size: 30px;
  text-align: center;
  font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-
serif;
}

    </style>
  </head>
  <body>
    <p class="para">
      Lorem ipsum dolor sit amet, consectetur adipisicing elit. Inventore
      maiores natus amet molestiae aliquid libero vero perspiciatis corrupti
      magni sapiente sunt nobis beatae, voluptatibus ratione. Blanditiis
```
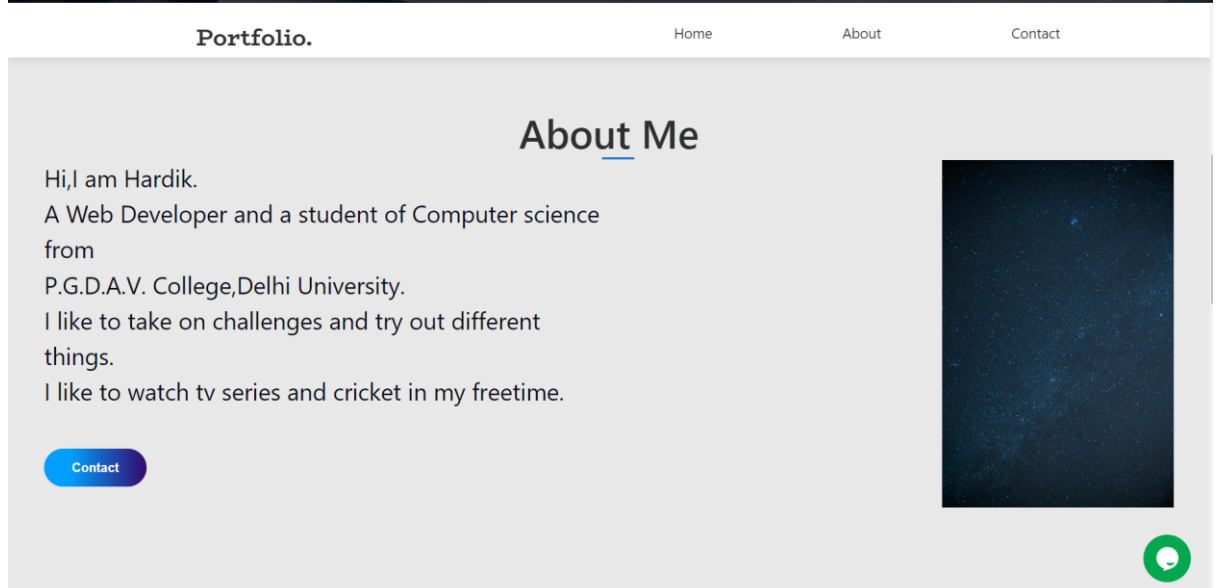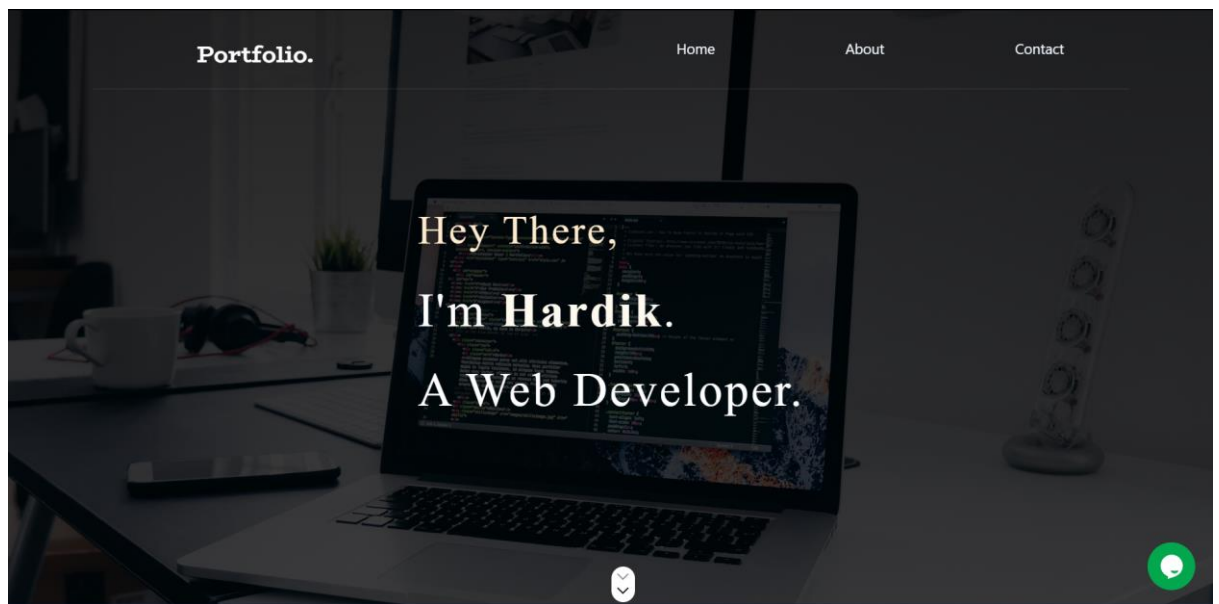
deleniti corporis consequatur impedit similique fugiat vero tempora nesciunt incidunt saepe, voluptatum repellendus. Tempora asperiores consequuntur ducimus similique possimus expedita labore est, voluptates reprehenderit neque quidem deserunt eos distinctio? Pariatur aliquid repellat ex laudantium, quia expedita reprehenderit doloribus excepturi, sint voluptas voluptatum? Exercitationem a illo, ullam quasi id autem ipsam vero, placeat sequi perferendis deleniti, reprehenderit nemo. Deserunt incidunt error eius ad ipsum natus officia quidem dolores numquam

nam nemo, voluptates voluptatum quod ullam harum, accusamus ut? Hic qui natus labore, quisquam dolores quibusdam sit unde omnis! Fuga consequuntur

commodi quos? Necessitatibus repudiandae mollitia, eligendi illum quos nam

sint voluptatibus numquam est magni incidunt accusantium. Laboriosam ullam

recusandae nulla blanditiis debitis assumenda quaerat. Vel ipsum voluptatum commodi non. Voluptate, quos nemo. Nemo impedit libero assumenda quae. Culpa aut molestias modi id maxime repudiandae sit quibusdam atque veritatis expedita odit corrupti omnis nostrum ipsum voluptatem, illum maiores dolorum in molestiae fugiat saepe facilis laborum doloremque? Sed nobis, odio deserunt itaque nostrum architecto consequatur cupiditate quos ducimus ratione reiciendis voluptates odit repellat hic perferendis nihil aliquid consectetur quae culpa mollitia ipsam beatae, rem, at adipisci. Culpa sed quas nihil et quod perspiciatis

soluta voluptatibus qui vero veritatis dignissimos doloribus ducimus, consequuntur dolores sit pariatur consequatur eos nam sunt. Praesentium, repellendus reprehenderit quo, ut illo eaque vero esse doloribus aspernatur porro qui nemo at in quisquam nesciunt sunt architecto facilis

debitis libero aliquam consequatur doloremque numquam. Ab, doloremque eius. Ipsa cumque consequatur quod accusamus aspernatur aperiam voluptatum

aut sunt omnis? Animi illum saepe modi incidunt debitis, dolorum enim dicta excepturi dolore, hic dolorem consequatur cum tempore sit aperiam eligendi sunt quidem officiis quo laudantium nisi rerum perferendis ducimus? Totam similique illum ipsa pariatur tempora quisquam sint sequi consequatur, minima deserunt, doloremque mollitia sunt molestias? Nesciunt

aspernatur error nostrum dolorum eaque eveniet natus inventore dignissimos

officia ipsam quia quos suscipit, minima molestiae vitae, labore aut quod

praesentium cum magnam, accusamus delectus. Magni laborum molestiae minima

fuga quaerat totam fugit labore, sunt dolorum itaque amet? Recusandae quia

```html
        impedit repellat voluptas sequi modi dolores voluptatem autem nam
        voluptate! Repudiandae cupiditate officiis, facere eius magnam veniam,
        tempore ipsam, similique nulla atque molestiae saepe illo suscipit
        reprehenderit! Laboriosam dicta nam provident. Laudantium, corporis
        dolorem quisquam pariatur eos repellendus ex rem provident tempora
        distinctio, nesciunt sapiente recusandae quaerat nisi impedit blanditiis
        architecto deserunt? Blanditiis non laboriosam qui sed perspiciatis,
        dolorum quo repellat obcaecati amet! Obcaecati, quibusdam, nisi amet
quas
        atque voluptate nesciunt deleniti voluptatem laudantium pariatur
aperiam,
        distinctio veniam magni optio at saepe tempora. Minima totam obcaecati
        neque maxime reprehenderit atque numquam omnis.
    </p>
    <div class="grid-container">


    <button class="grid-button grid-button1">RED</button>
    <button class="grid-button2 grid-button">Green</button>
    <button class="grid-button grid-button3">Blue</button>

    <button class="grid-button grid-button4">10</button>
    <button class="grid-button grid-button5">20</button>
    <button class="grid-button grid-button6">30</button>

    <button class="grid-button grid-button7">sans-serif</button>
    <button class="grid-button grid-button8">serif</button>
    <button class="grid-button grid-button9">monospace</button>
    </div>

    <script>
        document.querySelector(".grid-button1").addEventListener('click',
function(){
            document.querySelector(".para").style.color = "red";
        });
        document.querySelector(".grid-button2").addEventListener('click',
function(){
            document.querySelector(".para").style.color = "green";
        });
        document.querySelector(".grid-button3").addEventListener('click',
function(){
            document.querySelector(".para").style.color = "blue";
        });
        document.querySelector(".grid-button4").addEventListener('click',
function(){
            document.querySelector(".para").style.fontSize = "10px";
        });
```

```javascript
        document.querySelector(".grid-button5").addEventListener('click',
function(){
            document.querySelector(".para").style.fontSize = "20px";
        });
        document.querySelector(".grid-button6").addEventListener('click',
function(){
            document.querySelector(".para").style.fontSize = "30px";
        });
        document.querySelector(".grid-button7").addEventListener('click',
function(){
            document.querySelector(".para").style.fontFamily = "sans-serif";
        });
        document.querySelector(".grid-button8").addEventListener('click',
function(){
            document.querySelector(".para").style.fontFamily = "serif";
        });
        document.querySelector(".grid-button9").addEventListener('click',
function(){
            document.querySelector(".para").style.fontFamily = "monospace";
        });


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

OUTPUT:-
LINK: https://hardikbhanot.github.io/IT-PRACTICAL/5th

consequuntur ducimus similique possimus expedita labore est, voluptates reprehenderit neque quidem deserunt eos distinctio? Pariatur aliquid repellat ex laudantium, quia expedita reprehenderit doloribus excepturi, sint voluptas voluptatum? Exercitationem a illo, ullam quasi id autem ipsam vero, placeat sequi perferendis deleniti, reprehenderit nemo. Deserunt incidunt error eius ad ipsum natus officia quidem dolores numquam nam nemo, voluptates voluptatum quod ullam harum, accusamus ut? Hic qui natus labore, quisquam dolores quibusdam sit unde omnis! Fuga consequuntur commodi quos? Necessitatibus repudiandae mollitia, eligendi illum quos nam sint voluptatibus numquam est magni incidunt accusantium. Laboriosam ullam recusandae nulla blanditiis debitis assumenda quaerat. Vel ipsum voluptatum commodi non. Voluptate, quos nemo. Nemo impedit libero assumenda quae. Culpa aut molestias modi id maxime repudiandae sit quibusdam atque veritatis expedita odit corrupti omnis nostrum ipsum voluptatem, illum maiores dolorum in molestiae fugiat saepe facilis laborum doloremque? Sed nobis, odio deserunt itaque nostrum architecto consequatur cupiditate quos ducimus ratione reiciendis voluptates odit repellat hic perferendis nihil aliquid consectetur quae culpa mollitia ipsam beatae, rem, at adipisci. Culpa sed quas nihil et quod perspiciatis soluta voluptatibus qui vero veritatis dignissimos doloribus ducimus, consequuntur dolores sit pariatur consequatur eos nam sunt. Praesentium, repellendus reprehenderit quo, ut illo eaque vero esse doloribus aspernatur porro qui nemo at in quisquam nesciunt sunt architecto facilis debitis libero aliquam consequatur doloremque numquam. Ab, doloremque eius. Ipsa cumque consequatur quod accusamus aspernatur aperiam voluptatum aut sunt omnis? Animi illum saepe modi incidunt debitis, dolorum enim dicta excepturi dolore, hic dolorem consequatur cum tempore sit aperiam eligendi sunt quidem officiis quo laudantium nisi rerum perferendis ducimus? Totam similique illum ipsa pariatur tempora quisquam sint sequi consequatur, minima deserunt, doloremque mollitia sunt molestias? Nesciunt aspernatur error nostrum dolorum eaque eveniet natus inventore dignissimos officia ipsam quia quos suscipit, minima molestiae vitae, labore aut quod praesentium cum magnam, accusamus delectus. Magni laborum molestiae minima fuga quaerat totam fugit labore, sunt dolorum itaque amet? Recusandae quia impedit repellat voluptas sequi modi dolores voluptatem autem nam voluptate! Repudiandae cupiditate officiis, facere eius magnam veniam, tempore ipsam, similique nulla atque molestiae saepe illo suscipit reprehenderit! Laboriosam dicta nam provident. Laudantium, corporis dolorem quisquam pariatur eos repellendus ex rem provident tempora distinctio, nesciunt sapiente recusandae quaerat nisi impedit blanditiis architecto deserunt? Blanditiis non laboriosam qui sed perspiciatis, dolorum quo repellat obcaecati amet! Obcaecati, quibusdam, nisi amet quas atque voluptate nesciunt deleniti voluptatem laudantium pariatur aperiam, distinctio veniam magni optio at saepe tempora. Minima totam obcaecati neque maxime reprehenderit atque numquam omnis.

RED	Green	Blue
10	20	30
sans-serif	serif	monospace

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:

LINK: https://hardikbhanot.github.io/IT-PRACTICAL/4th

```html
<!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>Pets</title>

    <style>
        body {
  align-items: center;
  background-color: #000;
  display: flex;
  justify-content: center;
  height: 100vh;
}

.form {
  background-color: #15172b;
  border-radius: 20px;
  box-sizing: border-box;
  height: 500px;
  padding: 20px;
  width: 320px;
}

.title {
  color: #eee;
  font-family: sans-serif;
  font-size: 36px;
```

```css
  font-weight: 600;
  margin-top: 30px;
}

.subtitle {
  color: #eee;
  font-family: sans-serif;
  font-size: 16px;
  font-weight: 600;
  margin-top: 10px;
}

.input-container {
  height: 50px;
  position: relative;
  width: 100%;
}

.ic1 {
  margin-top: 40px;
}

.ic2 {
  margin-top: 30px;
}

.input {
  background-color: #303245;
  border-radius: 12px;
  border: 0;
  box-sizing: border-box;
  color: #eee;
  font-size: 18px;
  height: 100%;
  outline: 0;
  padding: 4px 20px 0;
  width: 100%;
}

.cut {
  background-color: #15172b;
  border-radius: 10px;
  height: 20px;
  left: 20px;
  position: absolute;
  top: -20px;
  transform: translateY(0);
  transition: transform 200ms;
```

```css
  width: 76px;
}

.cut-short {
  width: 50px;
}

.input:focus ~ .cut,
.input:not(:placeholder-shown) ~ .cut {
  transform: translateY(8px);
}

.placeholder {
  color: #65657b;
  font-family: sans-serif;
  left: 20px;
  line-height: 14px;
  pointer-events: none;
  position: absolute;
  transform-origin: 0 50%;
  transition: transform 200ms, color 200ms;
  top: 20px;
}

.input:focus ~ .placeholder,
.input:not(:placeholder-shown) ~ .placeholder {
  transform: translateY(-30px) translateX(10px) scale(0.75);
}

.input:not(:placeholder-shown) ~ .placeholder {
  color: #808097;
}

.input:focus ~ .placeholder {
  color: #dc2f55;
}

.submit {
  background-color: #08d;
  border-radius: 12px;
  border: 0;
  box-sizing: border-box;
  color: #eee;
  cursor: pointer;
  font-size: 18px;
  height: 50px;
  margin-top: 38px;
  text-align: center;
```

```
    width: 100%;
}

.submit:active {
  background-color: #06b;
}

    </style>
</head>
<body>
    <form class="form">

        <div class="input-container ic1">
            <input id="name" name="name" class="input" type="text"
placeholder="Pet's Name" />
            <div class="cut"></div>
            <label for="name" class="placeholder">Pet's Name</label>
        </div>
        <div class="input-container ic2">
            <input id="age" class="input" type="number" placeholder="Pet's Age
"   />
            <div class="cut"></div>
            <label for="age" class="placeholder">Pet's Age</label>
        </div>
        <div class="input-container ic2">
            <input id="weight" name="weight" class="input" type="text"
placeholder="Pet's Weight" />
            <div class="cut cut-short"></div>
            <label for="weight" class="placeholder">Pet's Weight</label>
        </div>

        <div class="input-container ic2">
            <input id="Type" name="type" class="input"
type="text"  placeholder="Pet's Type " />
            <div class="cut cut-short"></div>
            <label for="Type" class="placeholder">Pet's Type </label>
        </div>
        <div class="input-container ic2">
            <input id="Liking" name="Liking" class="input" type="text"
placeholder="Pet's liking " />
            <div class="cut cut-short"></div>
            <label for="Liking" class="placeholder">Pet's liking </label>
        </div>
        <button type="submit" class="submit">submit</button>
    </form>
      <script>
        document.querySelector('.form').addEventListener("submit",()=>{
            event.preventDefault();
```

```
        let name = document.getElementById("name").value;
        let age = document.getElementById("age").value;
        let weight = document.getElementById("weight").value;
        let type = document.getElementById("Type").value;
        let liking = document.getElementById("Liking").value;
        Pet={
            'name':name,
            'age':age,
            'weight':weight,
            'type':type,
            'liking':liking
        }
        console.log(Pet);

    })

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

OUTPUT:

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.

CODE:

```html
<!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>Pets</title>

    <style>
        body {
  align-items: center;
  background-color: #000;
  /* height: 100vh; */
}
.form-container{
    justify-content: center;

    display: flex;
}
.table-container{
    margin: 5%;
    height: 30vh;
    display: flex;
    justify-content: center;
}
.form {
  background-color: #15172b;
  border-radius: 20px;
  box-sizing: border-box;
  height: 500px;
  padding: 20px;
  width: 320px;
}

.title {
  color: #eee;
  font-family: sans-serif;
  font-size: 36px;
  font-weight: 600;
```

```css
    margin-top: 30px;
}

.subtitle {
  color: #eee;
  font-family: sans-serif;
  font-size: 16px;
  font-weight: 600;
  margin-top: 10px;
}

.input-container {
  height: 50px;
  position: relative;
  width: 100%;
}

.ic1 {
  margin-top: 40px;
}

.ic2 {
  margin-top: 30px;
}

.input {
  background-color: #303245;
  border-radius: 12px;
  border: 0;
  box-sizing: border-box;
  color: #eee;
  font-size: 18px;
  height: 100%;
  outline: 0;
  padding: 4px 20px 0;
  width: 100%;
}

.cut {
  background-color: #15172b;
  border-radius: 10px;
  height: 20px;
  left: 20px;
  position: absolute;
  top: -20px;
  transform: translateY(0);
  transition: transform 200ms;
  width: 76px;
```

```css
}

.cut-short {
  width: 50px;
}

.input:focus ~ .cut,
.input:not(:placeholder-shown) ~ .cut {
  transform: translateY(8px);
}

.placeholder {
  color: #65657b;
  font-family: sans-serif;
  left: 20px;
  line-height: 14px;
  pointer-events: none;
  position: absolute;
  transform-origin: 0 50%;
  transition: transform 200ms, color 200ms;
  top: 20px;
}

.input:focus ~ .placeholder,
.input:not(:placeholder-shown) ~ .placeholder {
  transform: translateY(-30px) translateX(10px) scale(0.75);
}

.input:not(:placeholder-shown) ~ .placeholder {
  color: rgb(76, 76, 241);
}

.input:focus ~ .placeholder {
  color: #dc2f55;
}

.submit {
  background-color: #08d;
  border-radius: 12px;
  border: 0;
  box-sizing: border-box;
  color: #eee;
  cursor: pointer;
  font-size: 18px;
  height: 50px;
  margin-top: 38px;
  text-align: center;
  width: 100%;
```
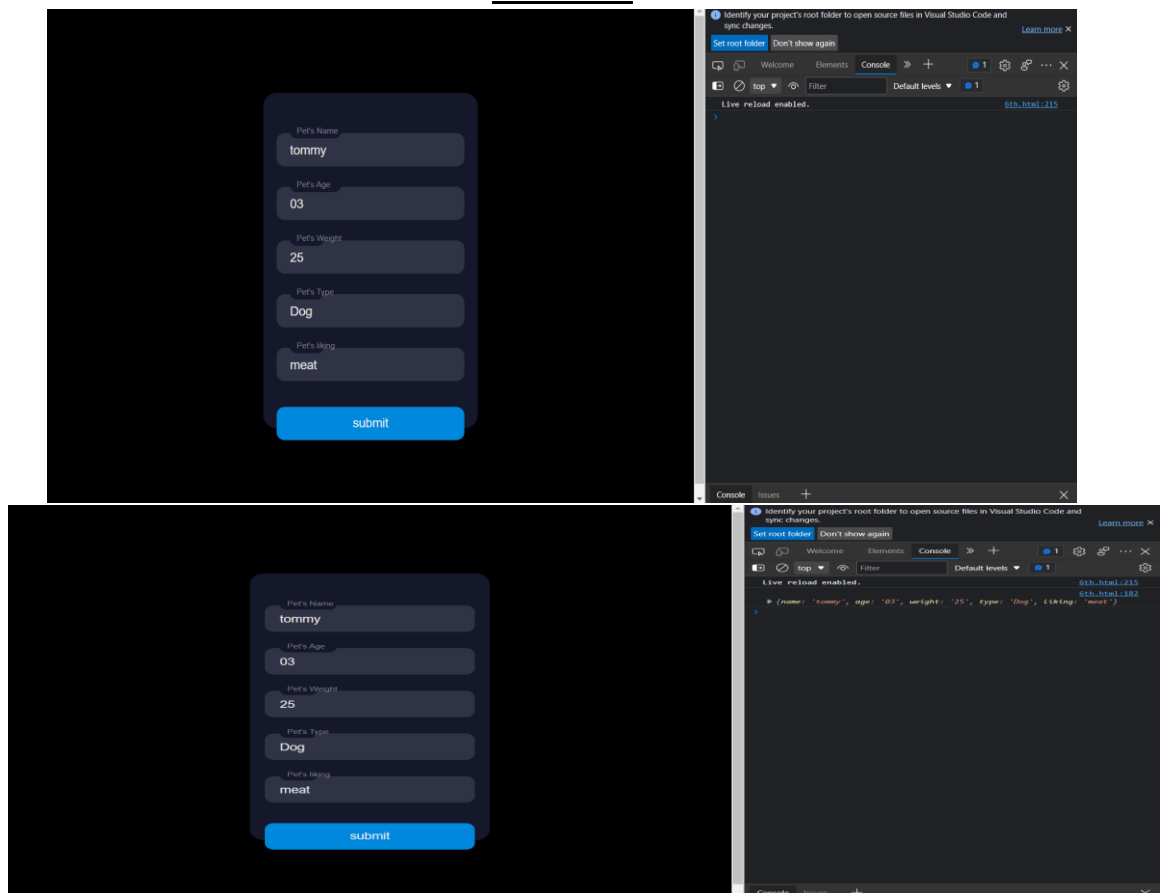
```css
}

.submit:active {
  background-color: #06b;
}

table{
    background-color: aliceblue;
    width: 60%;
}
tr{
    padding: 10px;

}
td{
    text-align: center;
}
    </style>
</head>
<body>
    <div class="form-container">
    <form class="form">

        <div class="input-container ic1">
            <input id="name" name="name" class="input" type="text"
placeholder="Pet's Name" />
            <div class="cut"></div>
            <label for="name" class="placeholder">Pet's Name</label>
        </div>
        <div class="input-container ic2">
            <input id="age" class="input" type="number" placeholder="Pet's Age
"  />
            <div class="cut"></div>
            <label for="age" class="placeholder">Pet's Age</label>
        </div>
        <div class="input-container ic2">
            <input id="weight" name="weight" class="input" type="text"
placeholder="Pet's Weight" />
            <div class="cut cut-short"></div>
            <label for="weight" class="placeholder">Pet's Weight</label>
        </div>

        <div class="input-container ic2">
            <input id="Type" name="type" class="input"
type="text"  placeholder="Pet's Type " />
            <div class="cut cut-short"></div>
            <label for="Type" class="placeholder">Pet's Type </label>
        </div>
```

```html
            <div class="input-container ic2">
                <input id="Liking" name="Liking" class="input" type="text"
placeholder="Pet's liking " />
                <div class="cut cut-short"></div>
                <label for="Liking" class="placeholder">Pet's liking </label>
            </div>
            <button type="submit" class="submit">submit</button>
        </form>
</div>
<div class="table-container">


    <table>
        <tr>
        <th>Name</th>
        <th>Age</th>
        <th>Weight</th>
        <th>Type</th>
        <th>Liking</th>

    </tr>
    </table>
</div>

<script>
    document.querySelector('.form').addEventListener("submit",()=>{
            event.preventDefault();
            let name = document.getElementById("name").value;
            let age = document.getElementById("age").value;
            let weight = document.getElementById("weight").value;
            let type = document.getElementById("Type").value;
            let liking = document.getElementById("Liking").value;
            Pet={
                'name':name,
                'age':age,
                'weight':weight,
                'type':type,
                'liking':liking
            }
            console.log(Pet);
        })
</script>
      <script type="module">

let request = new XMLHttpRequest();
request.open("GET", "7th.json", true);

document.querySelector("body").onload=()=>{
  request.send();
```

```javascript
    request.onload = function() {
        if (request.status == 200) {
        let data = JSON.parse(request.responseText);
        console.log(data);
        let table = document.querySelector("table");
        let str = "";
        data.forEach(function(element) {
            console.log(element);
            str += `
                <tr>
                <td>${element.name}</td>
                <td>${element.age}</td>
                <td>${element.weight}</td>
                <td>${element.type}</td>
                <td>${element.liking}</td>
                </tr>
                `;
        });
        table.innerHTML += str;
        } else {
        console.log("some error occured");
        }
    };
};
    </script>
</body>
</html>
```

JSON FILE

```json
[
{
    "name": "doggo",
    "age": "04",
    "weight": "30",
    "type": "dog",
    "liking": "foooodd"
},
{
    "name": "catto",
    "age": "02",
    "weight": "10",
    "type": "cat",
    "liking": "mice"
},
{
    "name": "birdo",
    "age": "01",
```

```
    "weight": "05",
    "type": "bird",
    "liking": "worms"
}
]
```

OUTPUT:

LINK: https://hardikbhanot.github.io/IT-PRACTICAL/7th

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:

LINK: https://github.com/Hardikbhanot/IT-PRACTICAL/blob/main/8th.html

```
<!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" />
```

```html
    <title>B.Sc (Hons) Computer Science by Delhi University(created by hardik
bhanot)</title>
    <script src="https://code.jquery.com/jquery-3.6.1.min.js"
integrity="sha256-o88AwQnZB+VDvE9tvIXrMQaPlFFSUTR+nldQm1LuPXQ="
crossorigin="anonymous"></script>
    <style>
        *{
            margin: 0;
            padding: 0;
            box-sizing: border-box;
        }
    </style>
</head>
<body>
    <section class="header">
        <h1>BSc (Hons) Computer Science</h1>
    </section>
    <div class="container">
        <section class="fee">
            <h2>Fee</h2>
            <p>
                The professional course of BSc. (Hons) Computer Science has a fee
                ranging between 45,000-50,000 INR varrying college-wise at The
                University of Delhi.
            </p>
        </section>

        <section class="eligibility">
            <h2>Eligibility</h2>
            <p>
                DU B.Sc (Hons) Computer Science Eligibility Criteria 2022, basic
                Requirements:
            </p>
            <ul>
                <li>
                    Candidates who have secured a minimum of 60 percent marks in
Mathematics as well in aggregate will be eligible to apply for this course.
                </li>
                <li>
                    Those with English, Mathematics and two subjects (other than
Physics, Chemistry, Computer Science/Informatics Practices) from List B will
lead to a deduction of one percent marks per subject in the aggregate.
                </li>
                <li>
                    Candidates must have English, Mathematics and best of the two
subjects from Physics, Chemistry, Computer Science/Informatics Practices in
class 12th.
                </li>
```

```html
      </ul>
  </section>

  <section class="course-structure">
    <h2>Course Structure</h2>
    <table>
      <thead>
        <tr>
          <th colspan="2">Course</th>
          <th colspan="2">Credits</th>
        </tr>
        <tr>
          <th colspan="2"> </th>
          <th>Theory &plus; Practical</th>
          <th>Theory &plus; Practical</th>
        </tr>
      </thead>

      <tbody>
        <tr>
          <td colspan="4"><strong>Core Course</strong></td>
        </tr>
        <tr>
          <td colspan="2"><strong>(14 papers)</strong></td>
          <td>56</td>
          <td>70</td>
        </tr>
        <tr>
          <td colspan="4">
            <strong>Core Course Practical/ Tutorial*</strong>
          </td>
        </tr>
        <tr>
          <td colspan="2"><strong>(14 papers)</strong></td>
          <td>28</td>
          <td>14</td>
        </tr>

        <tr>
          <td colspan="4"><strong>Elective Course</strong></td>
        </tr>
        <tr>
          <td colspan="4"><strong>(8 Papers)</strong></td>
        </tr>
        <tr>
          <td colspan="2">A.1. Discipline Specific Elective</td>
          <td>16</td>
```

```html
            <td>20</td>
          </tr>
          <tr>
            <td colspan="4"><strong>(4 Papers)</strong></td>
          </tr>
          <tr>
            <td colspan="2">
              A.2. Discipline Specific Elective Practical/ Tutorial*
            </td>
            <td>8</td>
            <td>4</td>
          </tr>
          <tr>
            <td colspan="4"><strong>(4 Papers)</strong></td>
          </tr>
          <tr>
            <td colspan="2">B.1. Generic Elective/ Interdisciplinary</td>
            <td>16</td>
            <td>20</td>
          </tr>
          <tr>
            <td colspan="4"><strong>(4 Papers)</strong></td>
          </tr>
          <tr>
            <td colspan="2">B.2. Generic Elective Practical/ Tutorial*</td>
            <td>8</td>
            <td>4</td>
          </tr>

          <tr>
            <td colspan="4"><strong>(4 Papers)</strong></td>
          </tr>
          <tr>
            <td colspan="4">
              <strong
                >* Optional Dissertation or project work in place of one
                Discipline Specific Elective paper (6 credits) in 6th
                Semester</strong
              >
            </td>
          </tr>

          <tr>
            <td colspan="4"><strong>Ability Enhancement
Courses</strong></td>
          </tr>
          <tr>
            <td colspan="4">
```

```html
            <strong>1. Ability Enhancement Compulsory</strong>
          </td>
        </tr>
        <tr>
          <td colspan="2"><strong>(2 papers of 4 credit
each)</strong></td>
          <td> 8</td>
          <td> 4</td>
        </tr>
        <tr>
          <td colspan="4">Environmental Science</td>
        </tr>
        <tr>
          <td colspan="4">English/MIL Communication</td>
        </tr>
        <tr>
          <td colspan="2">
            <strong>2. Skill Enhancement Elective</strong>
          </td>
          <td> 8</td>
          <td> 8</td>
        </tr>
        <tr>
          <td colspan="4"><strong>(2 papers of 4 credit
each)</strong></td>
        </tr>

        <tr>
          <td colspan="2"><strong>Total Credit</strong></td>
          <td><strong>140</strong></td>
          <td><strong>140</strong></td>
        </tr>
      </tbody>

      <tfoot>
        <td colspan="2">
          <strong
            >* wherever there is a practical there will be no tutorial and
            vice-versa</strong
          >
        </td>
      </tfoot>
    </table>
  </section>

  <section class="papers">
    <h2>Papers (Core)</h2>
    <ol>
```

```html
        <li>Programming Fundamentals using C++</li>
        <li>Computer System Architecture</li>
        <li>Programming in JAVA</li>
        <li>Discrete Structure</li>
        <li>Data Structures</li>
        <li>Operating System</li>
        <li>Computer Networks</li>
        <li>Design and Analysis of Algorithms</li>
        <li>Software Engineering</li>
        <li>Database Management Systems</li>
        <li>Internet Technologies</li>
        <li>Theory of Computation</li>
        <li>Artificial Intelligence</li>
        <li>Computer Graphics</li>
      </ol>
      <a href="http://cs.du.ac.in/programmes/bsc/" target="_blank"
        >Go to Delhi University official site for more info</a
      >
    </section>

    <section class="future">
      <h2>Future possibilities</h2>
      <div class="grid-col">
        <div class="f-container">
          <svg
            xmlns="http://www.w3.org/2000/svg"
            class="future-icons"
            fill="none"
            viewBox="0 0 24 24"
            stroke="currentColor"
            width="24px"
            height="24px"
          >
            <path
              stroke-linecap="round"
              stroke-linejoin="round"
              stroke-width="2"
              d="M16 8v8m-4-5v5m-4-2v2m-2 4h12a2 2 0 002-2V6a2 2 0 00-2-
2H6a2 2 0 00-2 2v12a2 2 0 002 2z"
            />
          </svg>
          <p class="f-heading">Data Scientist</p>
          <p class="f-content">
            Data scientists are a new breed of analytical data expert who
have
            the technical skills to solve complex problems and curiosity to
            find out what problems needs to be solved.
          </p>
```

```
        <p>Toolkit: Data visualization, Machine learning, Deep
learning,</p>
        </div>

        <div class="f-container">
          <svg
            xmlns="http://www.w3.org/2000/svg"
            class="future-icons"
            fill="none"
            viewBox="0 0 24 24"
            stroke="currentColor"
            width="24px"
            height="24px"
          >
            <path
              stroke-linecap="round"
              stroke-linejoin="round"
              stroke-width="2"
              d="M10 20l4-16m4 4l4 4-4 4M6 16l-4-4 4-4"
            />
          </svg>
          <p class="f-heading">Web Developer</p>
          <p class="f-content">
            Web developers create websites & web applications. There are 3
            main categories: Front End Developers, Back End Developers &
Full
            Stack Developers.
          </p>
          <p>Toolkit: HTML, CSS, JavaScript, PHP and</p>
        </div>

        <div class="f-container">
          <svg
            xmlns="http://www.w3.org/2000/svg"
            class="future-icons"
            fill="none"
            viewBox="0 0 24 24"
            stroke="currentColor"
            width="24px"
            height="24px"
          >
            <path
              stroke-linecap="round"
              stroke-linejoin="round"
              stroke-width="2"
              d="M12 18h.01M8 21h8a2 2 0 002-2V5a2 2 0 00-2-2H8a2 2 0 00-2
2v14a2 2 0 002 2z"
            />
```

```
        </svg>
        <p class="f-heading">Android Developer</p>
        <p class="f-content">
          An Android Developer is a Software Developer who specializes in
          designing applications, games for the Android marketplace.
Android
          Developers also have to be trendy.
        </p>

        <p>Toolkit: Java, Kotlin, C/C++, MySQl Databases</p>
      </div>

      <div class="f-container">
        <svg
          xmlns="http://www.w3.org/2000/svg"
          class="future-icons"
          fill="none"
          viewBox="0 0 24 24"
          stroke="currentColor"
          width="24px"
          height="24px"
        >
          <path
            stroke-linecap="round"
            stroke-linejoin="round"
            stroke-width="2"
            d="M11 5H6a2 2 0 00-2 2v11a2 2 0 002 2h11a2 2 0 002-2v-5m-
1.414-9.414a2 2 0 112.828 2.828L11.828 15H9v-2.828l8.586-8.586z"
          />
        </svg>
        <p class="f-heading">Graphic Designer</p>
        <p class="f-content">
          Graphic designers are visual communicators, who create visual
          concepts using computer software. They communicate ideas to
          inspire and inform users through art forms..
        </p>
        <p>Toolkit: Adobe Illustrator, Adobe Photoshop</p>
      </div>

      <div class="f-container">
        <svg
          xmlns="http://www.w3.org/2000/svg"
          class="future-icons"
          fill="none"
          viewBox="0 0 24 24"
          stroke="currentColor"
          width="24px"
          height="24px"
```

```
        >
          <path
            stroke-linecap="round"
            stroke-linejoin="round"
            stroke-width="2"
            d="M4 7v10c0 2.21 3.582 4 8 4s8-1.79 8-4V7M4 7c0 2.21 3.582 4
8 4s8-1.79 8-4M4 7c0-2.21 3.582-4 8-4s8 1.79 8 4m0 5c0 2.21-3.582 4-8 4s-8-
1.79-8-4"
          />
        </svg>
        <p class="f-heading">Database Manager</p>
        <p class="f-content">
          Database managers develop and maintain organization's databases.
          They create data storage and retrieval systems, troubleshoot
          database issues.
        </p>
        <p>ToolKit: MySQL,Oracle RDBMS, PhpMyAdmin</p>
      </div>

      <div class="f-container">
        <svg
          xmlns="http://www.w3.org/2000/svg"
          class="future-icons"
          fill="none"
          viewBox="0 0 24 24"
          stroke="currentColor"
          width="24px"
          height="24px"
        >
          <path
            stroke-linecap="round"
            stroke-linejoin="round"
            stroke-width="2"
            d="M10 20l4-16m4 4l4 4-4 4M6 16l-4-4 4-4"
          />
        </svg>
        <p class="f-heading">Software Engineer</p>
        <p class="f-content">
          A software engineer applies mathematical analysis and the
          principles of computer science in order to design and develop
          computer software.
        </p>
        <p>Toolkit: Programming and coding, Design and architecture</p>
      </div>
    </div>
  </section>

  <div class="add-design">
```

```html
      <button class="btn">Click to design the page</button>
    </div>
  </div>


  <script>
      $(document).ready(function () {
$(".add-design").click(function () {
  $("body").css({
    "background-color": "#f8f0fc",
    "font-family": "sans-serif",
    color: "#000",
    "font-size": "16px",
  });

  $(".container").css({
    width: "70%",
    margin: "0 auto",
    "margin-top": "64px",
    "line-height": "1.5",
  });

  $(".header").css({
    "background-color": "#4a464b",
    "margin-bottom": "10%",
  });

  $(".header h1").css({
    "text-align": "center",
    padding: "24px",
    "font-size": "42px",
    color: "#fff",
  });

  $(".grid-col").css({
    display: "grid",
    "grid-template-columns": "repeat(3, 1fr)",
    "column-gap": "40px",
    "column-gap": "40px",
    "row-gap": "48px",
  });

  $(".fee").css({ "margin-bottom": "10%" });

  $(".eligibility").css({ "margin-bottom": "10%" });

  $(".future").css({ "margin-bottom": "10%" });
```

```
$(".course-structure").css({ "margin-bottom": "10%" });

$(".papers").css({ "margin-bottom": "10%" });

$("a:link").css({
  "text-decoration": "none",
  color: "#fff",
  "background-color": " rgb(76, 76, 241)",
  padding: "10px",
  display: "inline-block",
  "border-radius": "10px",
  "margin-top": "12px",
  transition: "all 0.4s",
  "font-size": "16px",
});

$("a:visited").css({
  "text-decoration": "none",
  color: "#fff",
  "background-color": " rgb(76, 76, 241)",
  padding: "10px",
  display: "inline-block",
  "border-radius": "10px",
  "margin-top": "12px",
  transition: "all 0.4s",
  "font-size": "16px",
});

$(".btn").css({
  "text-decoration": "none",
  color: "#fff",
  "background-color": " rgb(76, 76, 241)",
  padding: "10px",
  display: "inline-block",
  "border-radius": "10px",
  "margin-top": "12px",
  transition: "all 0.4s",
  "font-size": "16px",
  cursor: "pointer",
  "text-transform": "uppercase",
  "letter-spacing": "0.5px",
  border: "0",
  "font-weight": "600",
});

$("a:hover").css({ "background-color": "#4a464b" });

$("a:active").css({ "background-color": "#4a464b" });
```

```
$(".btn:hover").css({ "background-color": "#4a464b" });

$("h2").css({
  "font-size": "36px",
  "margin-bottom": "28px",
});

$(".eligibility p").css({
  "margin-bottom": "18px",
});

$(".eligibility li").css({
  "list-style": "none",
  "margin-bottom": "16px",
});

$(".eligibility li:last-child ").css({ "margin-bottom": "0" });

$(".papers li").css({
  "margin-bottom": "12px",
  "padding-left": "12px",
  "margin-left": "24px",
});

$(".add-design ").css({ "margin-bottom": "10%" });

$(".f-heading").css({
  "font-size": "18px",
  "margin-bottom": "8px",
});

$(".future-icons").css({
  stroke: " rgb(76, 76, 241)",
  width: "24px",
  height: "24px",
  "margin-bottom": "12px",
});

$("table").css({
  "border-collapse": "collapse",
});

$("table td").css({
  padding: "16px 32px",
});

$("table table th").css({
```

```
      width: "40%",
    });

    $("thead tr:nth-child(2)").css({
      "text-align": "center",
    });

    $("tbody tr td:not(:first-child)").css({
      "text-align": "center",
    });

    $("tbody tr:nth-child(even)").css({
      "background-color": "#6eecaf",
    });

    $("tbody tr:nth-child(odd)").css({
      "background-color": "#eeeeeefb",
    });

    $("thead tr").css({
      "background-color": " rgb(76, 76, 241)",
      color: "#fff",
    });

    $("table th").css({
      padding: "16px 32px",
    });

    $("footer").css({
      "text-align": "center",
      "border-bottom": "8px solid  rgb(76, 76, 241)",
    });
  });
});
    </script>


  </body>
</html>
```

OUTPUT:
LINK: https://hardikbhanot.github.io/IT-PRACTICAL/8th

BSc (Hons) Computer Science

Fee
The professional course of BSc. (Hons) Computer Science has a fee ranging between 45,000-50,000 INR varrying college-wise at The University of Delhi.

Eligibility
DU B.Sc (Hons) Computer Science Eligibility Criteria 2022, basic Requirements:
Candidates who have secured a minimum of 60 percent marks in Mathematics as well in aggregate will be eligible to apply for this course.
Those with English, Mathematics and two subjects (other than Physics, Chemistry, Computer Science/Informatics Practices) from List B will lead to a deduction of one percent marks per subject in the aggregate.
Candidates must have English, Mathematics and best of the two subjects from Physics, Chemistry, Computer Science/Informatics Practices in class 12th.

Course Structure

Course	Credits	
	Theory + Practical	Theory + Practical
Core Course		
(14 papers)	56	70
Core Course Practical/ Tutorial*		
(14 papers)	28	14
Elective Course		
(8 Papers)		
A.1. Discipline Specific Elective	16	20
(4 Papers)		
A.2. Discipline Specific Elective Practical/ Tutorial*	8	4
(4 Papers)		
B.1. Generic Elective/ Interdisciplinary	16	20
(4 Papers)		
B.2. Generic Elective Practical/ Tutorial*	8	4
(4 Papers)		
**** Optional Dissertation or project work in place of one Discipline Specific Elective paper (6 credits) in 6th Semester**		
Ability Enhancement Courses		
1. Ability Enhancement Compulsory		
(2 papers of 4 credit each)	8	4
Environmental Science		
English/MIL Communication		
2. Skill Enhancement Elective	8	8
(2 papers of 4 credit each)		
Total Credit	140	140

* wherever there is a practical there will be no tutorial and vice-versa

Papers (Core)
Data Structures
Operating System
Computer Networks
Design and Analysis of Algorithms
Software Engineering
Database Management Systems
Internet Technologies
Theory of Computation
Artificial Intelligence
Computer Graphics
Go to Delhi University official site for more info

Future possibilities

📊

Data Scientist
Data scientists are a new breed of analytical data expert who have the technical skills to solve complex problems and curiosity to find out what problems needs to be solved.
Toolkit: Data visualization, Machine learning, Deep learning,

</>

Web Developer
Web developers create websites & web applications. There are 3 main categories: Front End Developers, Back End Developers & Full Stack Developers.
Toolkit: HTML, CSS, JavaScript, PHP and

📱

Android Developer
An Android Developer is a Software Developer who specializes in designing applications, games for the Android marketplace. Android Developers also have to be trendy.
Toolkit: Java, Kotlin, C/C++, MySQl Databases

✏️

Graphic Designer
Graphic designers are visual communicators, who create visual concepts using computer software. They communicate ideas to inspire and inform users through art forms..
Toolkit: Adobe Illustrator, Adobe Photoshop

🗄️

Database Manager
Database managers develop and maintain organization's databases. They create data storage and retrieval systems, troubleshoot database issues.
ToolKit: MySQL,Oracle RDBMS, PhpMyAdmin

</>

Software Engineer
A software engineer applies mathematical analysis and the principles of computer science in order to design and develop computer software.
Toolkit: Programming and coding, Design and architecture

Click to design the page

Course Structure

Course	Credits	
	Theory + Practical	Theory + Practical
Core Course		
(14 papers)	56	70
Core Course Practical/ Tutorial*		
(14 papers)	28	14
Elective Course		
(8 Papers)		
A.1. Discipline Specific Elective	16	20
(4 Papers)		
A.2. Discipline Specific Elective Practical/ Tutorial*	8	4

B.1. Generic Elective/ Interdisciplinary	16	20
(4 Papers)		
B.2. Generic Elective Practical/ Tutorial*	8	4
(4 Papers)		
* Optional Dissertation or project work in place of one Discipline Specific Elective paper (6 credits) in 6th Semester		
Ability Enhancement Courses		
1. Ability Enhancement Compulsory		
(2 papers of 4 credit each)	8	4
Environmental Science		
English/MIL Communication		
2. Skill Enhancement Elective	8	8
(2 papers of 4 credit each)		
Total Credit	**140**	**140**

Papers (Core)

1. Programming Fundamentals using C++
2. Computer System Architecture
3. Programming in JAVA
4. Discrete Structure
5. Data Structures
6. Operating System
7. Computer Networks
8. Design and Analysis of Algorithms
9. Software Engineering
10. Database Management Systems
11. Internet Technologies
12. Theory of Computation
13. Artificial Intelligence
14. Computer Graphics

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CLICK TO DESIGN THE PAGE

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.

CODE:

```html
<!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>Bootstrap gallery</title>
    <link
href="//maxcdn.bootstrapcdn.com/bootstrap/4.1.1/css/bootstrap.min.css"
rel="stylesheet" id="bootstrap-css">
<script
src="//maxcdn.bootstrapcdn.com/bootstrap/4.1.1/js/bootstrap.min.js"></script>
<script
src="//cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/magnific-
popup.js/1.1.0/magnific-popup.css" />
<script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery.isotope/3.0.6/isotope.pkgd.
js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/magnific-
popup.js/1.1.0/jquery.magnific-popup.js"></script>

<style>

body{
    margin:0;
    padding:0;
}
/* .container{
    width:90%
    margin:10px auto;
} */


.portfolio-item{
    /*width:100%;*/
}
.portfolio-item .item{
    /*width:303px;*/
    float:left;
    margin-bottom:10px;
}
```

```html
</style>
</head>
<body>
    <div class="container">
        <div class="row">
            <div class="col-lg-10 text-center my-2">
                <h4>Practical 9th Gallery Bootstrap</h4>
            </div>
        </div>

        <div class="portfolio-item row">
            <div class="item selfie col-lg-3 col-md-4 col-6 col-sm">
                <a href="https://images.unsplash.com/photo-1539697986717-
ac7aeef3db66?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                    <img class="img-fluid" src="https://images.unsplash.com/photo-
1539697986717-ac7aeef3db66?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" alt="">
                </a>
            </div>
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
                </a>
            </div>
            <div class="item selfie col-lg-3 col-md-4 col-6 col-sm">
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=387&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                    <img class="img-fluid" src="https://images.unsplash.com/photo-
1539674301301-46518fda6008?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" alt="">
                </a>
            </div>
            <div class="item gts col-lg-3 col-md-4 col-6 col-sm">
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```

```
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
                </a>
            </div>
            <div class="item gts col-lg-3 col-md-4 col-6 col-sm">
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" class="fancylight popup-btn" data-fancybox-group="light">
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" alt="">
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            </div>
            <div class="item gts col-lg-3 col-md-4 col-6 col-sm">
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=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
                </a>
            </div>
            <div class="item lap col-lg-3 col-md-4 col-6 col-sm">
                <a href="https://images.unsplash.com/photo-1539718110656-
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
1539718110656-942f6db1bfa0?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
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            </div>
            <div class="item lap col-lg-3 col-md-4 col-6 col-sm">
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
1539712112688-99d7315f29ca?ixlib=rb-
```

```html
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
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          </div>
          <div class="item gts col-lg-3 col-md-4 col-6 col-sm">
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8ba8e94e130e?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                  <img class="img-fluid" src="https://images.unsplash.com/photo-
1539676890708-8ba8e94e130e?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
                </a>
          </div>
          <div class="item lap col-lg-3 col-md-4 col-6 col-sm">
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
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          </div>
          <div class="item gts col-lg-3 col-md-4 col-6 col-sm">
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=388&q=80" alt="">
                </a>
          </div>
          <div class="item gts col-lg-3 col-md-4 col-6 col-sm">
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
                </a>
          </div>
```

```html
        <div class="item gts col-lg-3 col-md-4 col-6 col-sm">
            <a href="https://images.unsplash.com/photo-1500389783522-
18c9d0d14cbc?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" alt="">
            </a>
        </div>
        <div class="item gts col-lg-3 col-md-4 col-6 col-sm">
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
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        </div>
        <div class="item lap col-lg-3 col-md-4 col-6 col-sm">
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4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1174&q=80" alt="">
            </a>
        </div>
        <div class="item gts col-lg-3 col-md-4 col-6 col-sm">
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=1074&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
1484538162795-891443f6074f?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1074&q=80" alt="">
            </a>
        </div>
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```

```
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1074&q=80" class="fancylight popup-btn" data-fancybox-group="light">
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=1170&q=80" alt="">
            </a>
        </div>
        <div class="item lap col-lg-3 col-md-4 col-6 col-sm">
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=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
1539126408816-e8ce44955462?ixlib=rb-
```

```
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
                </a>
            </div>
            <div class="item lap col-lg-3 col-md-4 col-6 col-sm">
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group="light">
                    <img class="img-fluid" src="https://image.freepik.com/free-
photo/business-woman-working-laptop_1388-67.jpg" alt="">
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                </a>
            </div>
            <div class="item gts col-lg-3 col-md-4 col-6 col-sm">
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=387&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                    <img class="img-fluid" src="https://images.unsplash.com/photo-
1508527951275-84b4bfe1be1a?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" alt="">
                </a>
            </div>
            <div class="item gts col-lg-3 col-md-4 col-6 col-sm">
                <a href="https://images.unsplash.com/photo-1539362286735-
21789f9187f7?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                    <img class="img-fluid" src="https://images.unsplash.com/photo-
1539362286735-21789f9187f7?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
                </a>
            </div>
            <div class="item gts col-lg-3 col-md-4 col-6 col-sm">
                <a href="https://images.unsplash.com/photo-1512987415479-
85f370bca602?ixlib=rb-
```

```
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
1512987415479-85f370bca602?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
            </a>
        </div>
        <div class="item lap col-lg-3 col-md-4 col-6 col-sm">
            <a href="https://images.unsplash.com/photo-1476970980147-
71209edbfa4f?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
1476970980147-71209edbfa4f?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
            </a>
        </div>
        <div class="item lap col-lg-3 col-md-4 col-6 col-sm">
            <a href="https://images.unsplash.com/photo-1529419412599-
7bb870e11810?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
1529419412599-7bb870e11810?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" alt="">
            </a>
        </div>
        <div class="item lap col-lg-3 col-md-4 col-6 col-sm">
            <a href="https://images.unsplash.com/photo-1520009061071-
659eaf168151?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1073&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
1520009061071-659eaf168151?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1073&q=80" alt="">
            </a>
        </div>
        <div class="item lap col-lg-3 col-md-4 col-6 col-sm">
            <a href="https://images.unsplash.com/photo-1476970980147-
71209edbfa4f?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
1476970980147-71209edbfa4f?ixlib=rb-
```

```html
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
                    </a>
                </div>
                <div class="item lap col-lg-3 col-md-4 col-6 col-sm">
                    <a href="https://images.unsplash.com/photo-1533208705114-
4f6b97d68ab1?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1172&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                        <img class="img-fluid" src="https://images.unsplash.com/photo-
1533208705114-4f6b97d68ab1?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1172&q=80" alt="">
                    </a>
                </div>
                <div class="item selfie col-lg-3 col-md-4 col-6 col-sm">
                    <a href="https://images.unsplash.com/photo-1475776408506-
9a5371e7a068?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1058&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                        <img class="img-fluid" src="https://images.unsplash.com/photo-
1475776408506-9a5371e7a068?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1058&q=80" alt="">
                    </a>
                </div>
                <div class="item selfie col-lg-3 col-md-4 col-6 col-sm">
                    <a href="https://images.unsplash.com/photo-1512987415479-
85f370bca602?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                        <img class="img-fluid" src="https://images.unsplash.com/photo-
1512987415479-85f370bca602?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
                    </a>
                </div>
                <div class="item lap col-lg-3 col-md-4 col-6 col-sm">
                    <a href="https://images.unsplash.com/photo-1520009061071-
659eaf168151?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1073&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                        <img class="img-fluid" src="https://images.unsplash.com/photo-
1520009061071-659eaf168151?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1073&q=80" alt="">
                    </a>
                </div>
```

```html
            <div class="item selfie col-lg-3 col-md-4 col-6 col-sm">
                <a href="https://images.unsplash.com/photo-1512987415479-
85f370bca602?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                    <img class="img-fluid" src="https://images.unsplash.com/photo-
1512987415479-85f370bca602?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
                </a>
            </div>
            <div class="item selfie col-lg-3 col-md-4 col-6 col-sm">
                <a href="https://images.unsplash.com/photo-1539674301301-
46518fda6008?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                    <img class="img-fluid" src="https://images.unsplash.com/photo-
1539674301301-46518fda6008?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" alt="">
                </a>
            </div>
            <div class="item selfie col-lg-3 col-md-4 col-6 col-sm">
                <a href="https://images.unsplash.com/photo-1475776408506-
9a5371e7a068?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1058&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                    <img class="img-fluid" src="https://images.unsplash.com/photo-
1475776408506-9a5371e7a068?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1058&q=80" alt="">
                </a>
            </div>
            <div class="item selfie col-lg-3 col-md-4 col-6 col-sm">
                <a href="https://images.unsplash.com/photo-1507388412350-
cb43abdebced?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                    <img class="img-fluid" src="https://images.unsplash.com/photo-
1507388412350-cb43abdebced?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1170&q=80" alt="">
                </a>
            </div>
            <div class="item selfie col-lg-3 col-6 col-sm">
                <a href="https://images.unsplash.com/photo-1503965830912-
6d7b07921cd1?ixlib=rb-
```
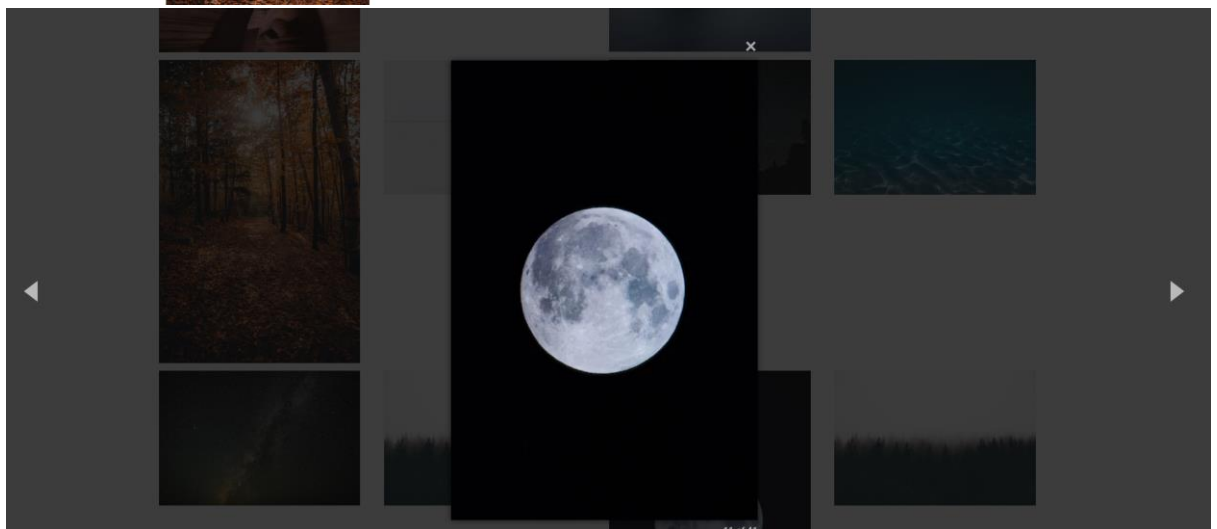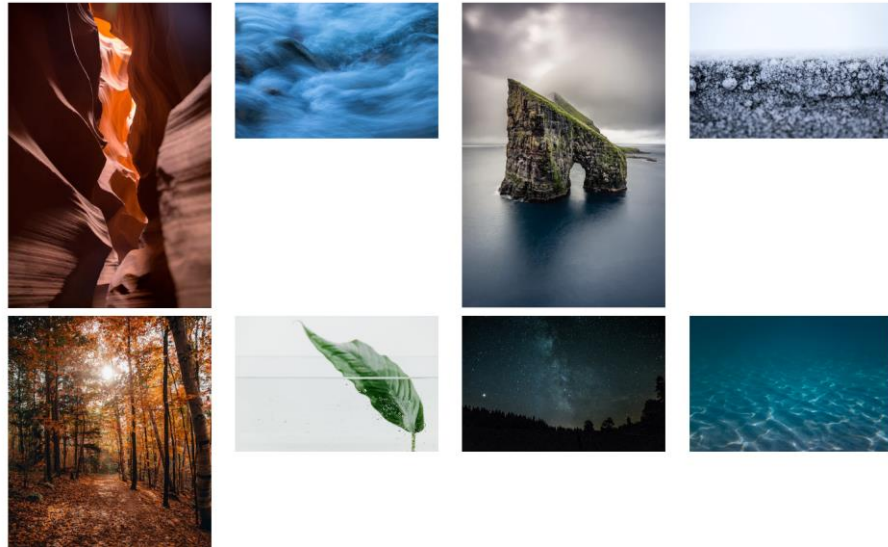
```
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1074&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
1503965830912-6d7b07921cd1?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1074&q=80" alt="">
                </a>
            </div>
            <div class="item selfie col-lg-3 col-md-4 col-6 col-sm">
                <a href="https://images.unsplash.com/photo-1435224654926-
ecc9f7fa028c?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
1435224654926-ecc9f7fa028c?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=387&q=80" alt="">
                </a>
            </div>
            <div class="item selfie col-lg-3 col-md-4 col-6 col-sm">
                <a href="https://images.unsplash.com/photo-1503965830912-
6d7b07921cd1?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1074&q=80" class="fancylight popup-btn" data-fancybox-group="light">
                <img class="img-fluid" src="https://images.unsplash.com/photo-
1503965830912-6d7b07921cd1?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w
=1074&q=80" alt="">
                </a>
            </div>
        </div>
    </div>

    <script>
        $(document).ready(function() {
        var popup_btn = $('.popup-btn');
        popup_btn.magnificPopup({
        type : 'image',
        gallery : {
            enabled : true
        }
        });
        });
    </script>

</body>
</html>
```

OUTPUT:
LINK: **https://hardikbhanot.github.io/IT-PRACTICAL/9th**

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.

CODE:

index.js

```javascript
const http= require('http');
const port = 10000;
const hostName='localhost';
const server = http.createServer((request, result) => {
    result.statusCode = 200;
    result.setHeader("Content-Type", "text/plain");
    result.end("Hello World, this is my Node.js server");
});


  server.listen(port, hostName, () => {
    console.log(`Server running at http://${hostName}:${port}/`);
  });
```

Package.json

```json
{
  "name": "practical-10th",
  "version": "1.0.0",
  "description": "node js practical ques 10th",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC"
}
```

OUTPUT:

```
Hello World, this is my Node.js server
```

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:-
Signup.html

```html
<!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>Document</title>
</head>
<style>
    * {
      box-sizing: border-box;
    }
    body {
      background-color: #943850;
    }
    form {
      margin-left: 25%;
      margin-top: 5%;
      max-width: 50%;
      background-color: #2fa7c9;
      color: black;
    }

    input[type="text"],
    input[type="password"] {
      width: 100%;
      padding: 5px;
      margin: 5px 0 22px 0;
      display: inline-block;
      border: none;
      font-size: 1.3rem;
      background: #f1f1f1;
    }
    input[type="text"]:focus,
    input[type="password"]:focus {
      background-color: #ddd;
      outline: none;
    }
    hr {
```

```css
      border: 1px solid #f1f1f1;
      margin-bottom: 25px;
    }

    button {
      background-color: #273fca;
      color: white;
      padding: 14px 20px;
      margin: 8px 0;
      border: none;
      cursor: pointer;
      width: 100%;
      scale: 0.95;
    }
    button:hover {
      scale: 1.2;
    }


    .signupbtn {
      float: left;
      width: 30%;
    }

    .container {
      padding: 16px;
    }

    .clearfix::after {
      content: "";
      clear: both;
      display: table;
    }

  </style>
```
```html
<body>
<form action="http://localhost:10000/signup" method="post"
enctype="text/plain">
<div class="container">
<h1>Sign Up</h1>
<p>Please fill in this form to create an account.</p>
<hr>
<label for="psw-repeat"><b>Name</b></label>
<input type="text" placeholder="name" name="name" required>
<label for="email"><b>Email</b></label>
<input type="text" placeholder="Enter Email" name="email" required>
<label for="psw"><b>Password</b></label>
<input type="password" placeholder="Enter Password" name="password" required>
```

```html
<div class="clearfix">
<button type="submit" class="signupbtn">Sign Up</button>
</div>
</div>
</form>
</body>
</html>
```

Login.html

```html
<!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>Document</title>
  </head>
  <style>
    * {
      box-sizing: border-box;
    }
    body {
      background-color: #943850;
    }
    form {
      margin-left: 25%;
      margin-top: 5%;
      max-width: 50%;
      background-color: #2fa7c9;
      color: black;
    }

    input[type="text"],
    input[type="password"] {
      width: 100%;
      padding: 5px;
      margin: 5px 0 22px 0;
      display: inline-block;
      border: none;
      font-size: 1.3rem;
      background: #f1f1f1;
    }
    input[type="text"]:focus,
    input[type="password"]:focus {
      background-color: #ddd;
      outline: none;
```

```
    }
    hr {
      border: 1px solid #f1f1f1;
      margin-bottom: 25px;
    }
    /* Set a style for all buttons */
    button {
      background-color: #273fca;
      color: white;
      padding: 14px 20px;
      margin: 8px 0;
      border: none;
      cursor: pointer;
      width: 100%;
      scale: 0.95;
    }
    button:hover {
      scale: 1.2;
    }

    /* Float cancel and signup buttons and add an equal width */
    .signupbtn {
      float: left;
      width: 30%;
    }
    /* Add padding to container elements */
    .container {
      padding: 16px;
    }
    /* Clear floats */
    .clearfix::after {
      content: "";
      clear: both;
      display: table;
    }
    /* Change styles for cancel button and signup button on extra small
screens */
    @media screen and (max-width: 300px) {
      .signupbtn {
        width: 100%;
      }
    }
  </style>
  <body>
    <form
      action="http://localhost:10000/login"
      method="post"
      enctype="text/plain"
```

```html
    >
      <div class="container">
        <h1>LogIn</h1>
        <hr />
        <label for="email"><b>Email</b></label>
        <input type="text" placeholder="Enter Email" name="email" required />
        <label for="psw"><b>Password</b></label>
        <input
          type="password"
          placeholder="Enter Password"
          name="password"
          required
        />
        <p>
          Don't have an account?
          <a href="./signup.html" style="color: dodgerblue">SignUp</a>.
        </p>
        <div class="clearfix">
          <button type="submit" class="signupbtn">LogIn</button>
        </div>
      </div>
    </form>
  </body>
</html>
```

index.js

```js
const http = require("http");
const mysql = require("mysql");
const StringDecoder = require("string_decoder");
const host = "localhost";
const port = 10000;
var con = mysql.createConnection({
    host: "localhost",
    user: "root",
    password: "",
    database: "user_data",
});
con.connect((err) => {
    if (err) throw err;
    console.log("Connected!");
});
const requestListener = async (req, res) => {
    res.setHeader("Content-Type", "application/json");
    switch (req.url) {
        case "/login":
            req.on("data", (content) => {
```

```javascript
                let  content_init = content.toString();
                content_init = content_init.replaceAll("=", ":");
                content_init = content_init.split("\r\n");
                let email = content_init[0].split(":")[1];
                let password = content_init[1].split(":")[1];
                con.query(
                    `select * from users where email=? and password=?`,
                    [email, password],
                    function (err, result) {
                        if (err) {
                            res.writeHead(500);
                            res.end(JSON.stringify({ messages: "Error Occured"
}));
                        }
                        res.writeHead(302, {
                            location: "/",
                        });
                        res.end(JSON.stringify(result[0]));
                    }
                );
            });
            break;
        case "/signup":
            req.on("data", (content) => {
                let  content_init = content.toString();
                content_init = content_init.replaceAll("=", ":");
                content_init = content_init.split("\r\n");
                namee = content_init[0].split(":")[1];
                email = content_init[1].split(":")[1];
                password = content_init[2].split(":")[1];
                con.query(
                    `insert into users values (?)`,
                    [[namee, email, password]],
                    function (err, result) {
                        if (err) throw err;
                        res.writeHead(302, {
                            location: "/",
                        });
                        res.end(JSON.stringify(result[0]));
                    }
                );
            });
            break;
        default:
            res.writeHead(200);
            res.end(JSON.stringify({ message: "Welcome" }));
    }
};
```

```
const server = http.createServer(requestListener);
server.listen(port, host, () => {
    console.log(`Server listening on http://${host}:${port}`);
});
```

OUTPUT: