

Name : Abhishek Kumar

Course : Bsc (H) computer science

Section : A

Roll No. : 10814

Question1 And Question 2

C:\ Select Command Prompt

- □ ×

Microsoft Windows [Version 10.0.19045.3693]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Abhishek>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

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

Wireless LAN adapter Local Area Connection* 2:

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

Wireless LAN adapter Local Area Connection* 3:

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

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . . :
Link-local IPv6 Address : fe80::a002:7602:c547:4a38%14
IPv4 Address. : 192.168.0.103
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 . . :

C:\Users\Abhishek>arp -a

Interface: 192.168.0.103 --- 0xe
Internet Address Physical Address Type

```
Interface: 192.168.0.103 --- 0xe
Internet Address      Physical Address      Type
192.168.0.1            50-2b-73-b0-c4-98    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
```

```
C:\Users\Abhishek>ping 192.168.0.255
```

```
Pinging 192.168.0.255 with 32 bytes of data:
```

```
Request timed out.
```

```
Ping statistics for 192.168.0.255:
```

```
  Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
C:\Users\Abhishek>ping 192.168.0.1
```

```
Pinging 192.168.0.1 with 32 bytes of data:
```

```
Reply from 192.168.0.1: bytes=32 time=11ms TTL=64
```

```
Reply from 192.168.0.1: bytes=32 time=7ms TTL=64
```

```
Reply from 192.168.0.1: bytes=32 time=1ms TTL=64
```

```
Reply from 192.168.0.1: bytes=32 time=260ms TTL=64
```

```
Ping statistics for 192.168.0.1:
```

```
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

```
Approximate round trip times in milli-seconds:
```

```
    Minimum = 1ms, Maximum = 260ms, Average = 69ms
```

```
C:\Users\Abhishek>netstat
```

```
Active Connections
```

```
CH Select Command Prompt
C:\Users\Abhishek>netstat
Active Connections

Proto Local Address          Foreign Address        State
TCP   192.168.0.103:54934   20.198.119.84:https ESTABLISHED
TCP   192.168.0.103:55079   20.239.125.92:https CLOSE_WAIT
TCP   192.168.0.103:55080   152.195.38.76:http  CLOSE_WAIT
TCP   192.168.0.103:55217   20.212.88.117:https ESTABLISHED
TCP   192.168.0.103:55247   52.123.160.137:https ESTABLISHED
TCP   192.168.0.103:55353   whatsapp-cdn-shv-02-del2:https ESTABLISHED
TCP   192.168.0.103:55456   20.198.118.190:https ESTABLISHED
TCP   192.168.0.103:55458   a104-90-5-146:https CLOSE_WAIT

C:\Users\Abhishek>ping 192.168.0.103

Pinging 192.168.0.103 with 32 bytes of data:
Reply from 192.168.0.103: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.103:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\Abhishek>tracert 192.168.0.103

Tracing route to DESKTOP-M1VN25D [192.168.0.103]
over a maximum of 30 hops:

  1    <1 ms      <1 ms      <1 ms  DESKTOP-M1VN25D [192.168.0.103]

Trace complete.
```

IP address=192.168.0.103

Subnet Mask=255.255.255.0

Default Gateway=192.168.0.1

Subnet No.=192.168.8.0

Question3

HTML.....

```
<html>
<head>
<title>
    Question3
</title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<marquee behavior="alternate" bgcolor="gray">
<h1>DEAILS</h1></marquee>
<div class="l">
    <h2> Abhishek Kumar </h2>
    <i><h2>Course : B.Sc(H) Computer Science</h2>
    <h2>Hobbies : Playing Football , Playing cricket, Singing</h2>
    <h2>College : Keshav Mahavidyalaya</h2>
</div>
</body>
</html>
```

CSS.....

```
body {
    background-color: rgb(196, 66, 66);
}
```

```
h1 {  
    color: #111111;  
    font-size: 50px;  
}  
l{
```

```
width: 400px;  
margin: auto;  
margin: 20 0 0 450px;  
padding: 80px;  
background: #9ff71b;  
border-radius: 15px ;  
}
```

```
h2{  
    background-color:light-yellow;  
    color:rgb(224, 34, 34);  
    text-align:center-right;  
    width:500px;  
}
```

```
.img {  
    padding-left:100px;  
}
```

DETAILS

Abhishek Kumar

Course : B.Sc(H) Computer Science

*Hobbies : Playing Football , Playing cricket,
Singing*

College : Keshav Mahavidyalaya

Question4

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

<body>

<script>

var n = prompt("enter a no.:");

var time;

var size = 1

function abc(){

time = setInterval(table, 2000);


```

```
}

function table()

{

var color = ["red", "blue", "purple", "orange", "pink", "golden", "black", "grey"];
```

```
var rand = Math.floor((Math.random()*10)+1);
```

```
for ( i=1; i<=10; i++ )
```

```
{
```

```
var table = (n + "*" + i + "=" + n*i + "<br>");
```

```
document.write(table.fontcolor(color[rand]).fontsize(size+1));
```

```
//document.write(table.fontsize(size+1));
```

```
}
```

```
size = size+1;
```

```
document.write("<br>");
```

```
if(n==10)
```

```
{
```

```
clearInterval(time);
```

```
}
```

```
n++;
```

```
}
```

```
abc();
```

```
</script>
```

```
</body>
```

```
</html>
```

2*1=2
2*2=4
2*3=6
2*4=8
2*5=10
2*6=12
2*7=14
2*8=16
2*9=18
2*10=20

3*1=3
3*2=6
3*3=9
3*4=12
3*5=15
3*6=18
3*7=21
3*8=24
3*9=27
3*10=30

4*1=4
4*2=8
4*3=12
4*4=16
4*5=20
4*6=24
4*7=28
4*8=32
4*9=36
4*10=40

4*7=28
4*8=32
4*9=36
4*10=40

5*1=5
5*2=10
5*3=15
5*4=20
5*5=25
5*6=30
5*7=35
5*8=40
5*9=45
5*10=50

6*1=6
6*2=12
6*3=18
6*4=24
6*5=30

7*10=70

8*1=8
8*2=16
8*3=24
8*4=32
8*5=40
8*6=48
8*7=56
8*8=64
8*9=72

9*8=72

9*9=81

9*10=90

10*1=10

10*2=20

10*3=30

10*4=40

10*5=50

10*6=60

10*7=70

10*8=80

Question5

```
<html>
```

```
<head>
```

```
</head>
```

```
<body>
```

```
<h3>Changing text size, Font and color on clicking button</h3>
```

```
<p id="10">Football in India is a growing sport with a
```

passionate fan base. Despite cricket's dominance,

football is gaining popularity, fueled by domestic

leagues like the Indian Super League (ISL) and

I-League. The sport's grassroots development is

supported by various initiatives, encouraging youth

participation. India's national team competes globally,

striving for improvement. Renowned players like Sunil

Chhetri have contributed to raising the sport's profile.

Challenges include infrastructure limitations and historical cricket-centric preferences. However, football's upward trajectory in India signals a promising future, with increased investment, grassroots efforts, and growing enthusiasm among fans.</p>


```
<input type="button" value="red" id="1"/>

<input type="button" value="blue" id="2"/>

<input type="button" value="Green" id="3"/><br><br>

<input type="button" value="10" id="4"/>

<input type="button" value="20" id="5"/>

<input type="button" value="30" id="6"/><br><br>

<input type="button" value="Algerian" id="7"/>

<input type="button" value="aerial" id="8"/>

<input type="button" value="times new roman" id="9"/>

<script>

function color1(value){

    document.getElementById("10").style.color = value;

}

function font1(value){

    document.getElementById("10").style.fontSize = value;

}

function fontfamily1(value){

    document.getElementById("10").style.fontFamily = value;

}

document.getElementById("1").addEventListener("click", ()=>{color1("red")})

document.getElementById("2").addEventListener("click", ()=>{color1("blue")})

document.getElementById("3").addEventListener("click", ()=>{color1("Green")})

document.getElementById("4").addEventListener("click", ()=>{font1("10px")})
```

```

document.getElementById("5").addEventListener("click",()=>{font1("20px")})

document.getElementById("6").addEventListener("click",()=>{font1("30px")})

document.getElementById("7").addEventListener("click",()=>{fontfamily1("Algerian")})

document.getElementById("8").addEventListener("click",()=>{fontfamily1("aerial")})

document.getElementById("9").addEventListener("click",()=>{fontfamily1("times new roman")})

</script>

</body>

</html>

```

Changing text size and color on clicking button

Football in India is a growing sport with a passionate fan base. Despite cricket's dominance, football is gaining popularity, fueled by domestic leagues like the Indian Super League (ISL) and I-League. The sport's grassroots development is supported by various initiatives, encouraging youth participation. India's national team competes globally, striving for improvement. Renowned players like Sunil Chhetri have contributed to raising the sport's profile. Challenges include infrastructure limitations and historical cricket-centric preferences. However, football's upward trajectory in India signals a promising future, with increased investment, grassroots efforts, and growing enthusiasm among fans.

Changing text size and color on clicking button

Football in India is a growing sport with a passionate fan base. Despite cricket's dominance, football is gaining popularity, fueled by domestic leagues like the Indian Super League (ISL) and I-League. The sport's grassroots development is supported by various initiatives, encouraging youth participation. India's national team competes globally, striving for improvement. Renowned players like Sunil Chhetri have contributed to raising the sport's profile. Challenges include infrastructure limitations and historical cricket-centric preferences. However, football's upward trajectory in India signals a promising future, with increased investment, grassroots efforts, and growing enthusiasm among fans.

Changing text size and color on clicking button

Football in India is a growing sport with a passionate fan base. Despite cricket's dominance, football is gaining popularity, fueled by domestic leagues like the Indian Super League (ISL) and I-League. The sport's grassroots development is supported by various initiatives, encouraging youth participation. India's national team competes globally, striving for improvement. Renowned players like Sunil Chhetri have contributed to raising the sport's profile. Challenges include infrastructure limitations and historical cricket-centric preferences. However, football's upward trajectory in India signals a promising future, with increased investment, grassroots efforts, and growing enthusiasm among fans.

Changing text size, Font and color on clicking button

FOOTBALL IN INDIA IS A GROWING SPORT WITH A PASSIONATE FAN BASE. DESPITE CRICKET'S DOMINANCE, FOOTBALL IS GAINING POPULARITY, FUELED BY DOMESTIC LEAGUES LIKE THE INDIAN SUPER LEAGUE (ISL) AND I-LEAGUE. THE SPORT'S GRASSROOTS DEVELOPMENT IS SUPPORTED BY VARIOUS INITIATIVES, ENCOURAGING YOUTH PARTICIPATION. INDIA'S NATIONAL TEAM COMPETES GLOBALLY, STRIVING FOR IMPROVEMENT. RENOWNED PLAYERS LIKE SUNIL CHHETRI HAVE CONTRIBUTED TO RAISING THE SPORT'S PROFILE. CHALLENGES INCLUDE INFRASTRUCTURE LIMITATIONS AND HISTORICAL CRICKET-CENTRIC PREFERENCES. HOWEVER, FOOTBALL'S UPWARD TRAJECTORY IN INDIA SIGNALS A PROMISING FUTURE, WITH INCREASED INVESTMENT, GRASSROOTS EFFORTS, AND GROWING ENTHUSIASM AMONG FANS.

Question6

<html>

 <head>

 <style>

 body {

 background-image: url('dog.jpg');

 background-repeat: no-repeat;

```
background-size: 100% 100%;  
background-attachment: fixed  
}  
  
.a{  
font-size: xx-large;  
color: rgb(23, 22, 22);  
}  
</style>  
</head>  
  
<body>  
  
<h1 style="color: rgb(100, 244, 16); font-size: 50;" align="center">Enter your pet details </h1>  
  
<div class ="a">  
  
Pet's name :<input type="text" id="1" name="petname" ><br><br>  
  
Age : &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;  
<input type="number" min="1" maxlength="50" id = "2" name="age"><br><br>  
  
Weight : &nbsp; &nbsp;&nbsp;<input name = "weight"  
type="text" id = "3"><br><br>  
  
Pet Type : &nbsp;&nbsp;&nbsp;<input name = "type" type="text" id = "4"><br><br>  
  
Likes : &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input  
type="text" id="5" name="likes"><br><br>  
</div>  
  
<button onclick="abc()">Submit</button>  
  
<script>  
  
function abc(){  
  
var pet = {};  
  
var x = document.getElementsByTagName("input");  
  
for (var i = 0; i < x.length; i++) {  
  
pet[x[i].name] = x[i].value;  
}
```

```
}

  console.log(pet);

  console.log(JSON.stringify(pet));

}

</script>

</body>

</html>
```

-->

Enter your pet details

Pet's name :

Age :

Weight :

Pet Type :

Likes :

The screenshot shows a browser's developer tools with the 'Console' tab selected. It displays several log entries for the 'pet' object, each showing different properties like 'petname', 'age', 'weight', 'type', and 'lik'. A red error message at the top indicates a failed resource load for 'dog.jpg'. The log entries are timestamped at 'pract6.html:93'.

```
Failed to load resource: the server responded with a status of 404 (Not Found)
Object
```

pract6.html:93
pract6.html:93

Question7

HTML.....

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>

<title>Document</title>
```

```
</head>

<body>

<button type="button" onclick="s()">submit</button>

<script>

function s(){

//$(document).ready

$.ajax({

dataType:'json',

url : 'index.json',

request : 'get',

success: function(data){

//console.log(data)

//document.getElementById(pet1)

$.each(data, function(key,val){

$.each(val, function(i,j){

console.log(i,j);

$("b").text(key,val);

})

})

}

})

}

</script>

</body>

</html>
```

JSON.....

```
{
```

```
"pet1": {
```

```
  "name": "moti",
```

```
  "Age": "4",
```

```
  "Type": "cat"
```

```
},
```

```
"pet2": {
```

```
  "name": "rockey",
```

```
  "Age": "6",
```

```
  "Type": "dog"
```

```
},
```

```
"pet3": {
```

```
  "name": "shera",
```

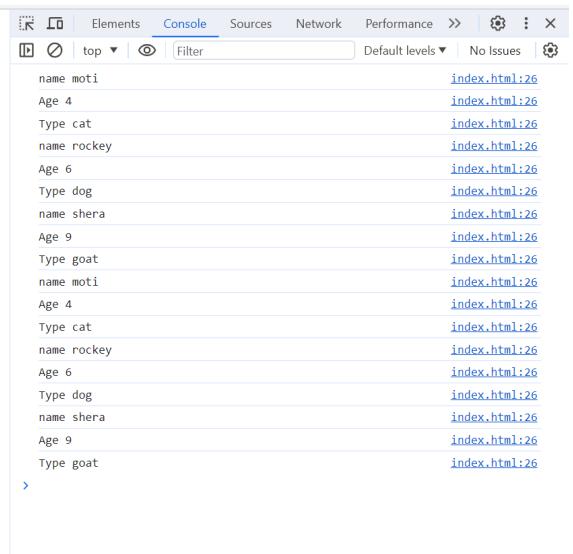
```
  "Age": "9",
```

```
  "Type": "goat"
```

```
}
```

```
}
```

```
submit
```



Question8

```
<html>

<title>Computer Science</title>

<head>

<style>

body {



border: 2px solid rgb(254, 249, 249);

background-repeat: repeat;

background-attachment: fixed;

background-position: center ;

background-image : linear-gradient(to right, rgb(243, 234, 234) , yellow);

}

</style>

<script src="https://code.jquery.com/jquery-3.7.1.min.js"></script>

<script>$("document").ready(function(){

$("button").click(function(){

$("li").css("color","#FFBF00","font-weight", "bold");

var imageUrl = "cp.jpg";

$("body").css("background-image", "url(" + imageUrl + ")");

$("h1").css({"text-align":"center","fontSize":"50px","color":"white"});

$("#t1").css({"background-color":"yellow","width":"50%","border":"2px solid black","margin":"auto","padding":"1px"});

$("tr,td").css({"margin":"6px","padding":"5px","background-color":rgba(255, 99, 71, 0.4)});

$("p").css({"fontSize" : "20px", "font-weight": "bold","color":"white"});

$("h3").css({"fontSize":"25px","font-style": "italic","color": "#40E0DO","text-decoration": "underline"});
```

```
$( "h2" ).css({ "color": "#3090C7", "font-style": "italic", "text-align": "center", "fontSize": "30px", "background-color": "#DAEE01", "width": "25%", "padding": "1px", "margin": "auto", "border": "2px" }) ;  
$("#b1").click(function () {  
    $("p").css("background", "black");  
});  
});  
</script>  
</head>  
<body>
```

<h1>B.sc(H) Computer Science</h1>

<h2> General Details</h2>

<p>The B.Sc. (H) Computer Science programme is designed to develop analytical & computational thinking, and problem solving skills. It covers the core computer science topics like computer systems architecture, data structures, computer networks, operating systems, computer graphics, algorithms, software engineering, database management, theory of computation, artificial intelligence, and information security. The programme builds a base for entry level jobs in information technology and prepares the students for higher studies in the area of Computer Science/Applications.</p>

<h3>1. Introduction to Programme B.Sc. (H) Computer Science</h3>

<div>

The B.Sc. (H) Computer Science programme is designed to develop analytical & computational thinking, and problem solving skills.

It covers the core computer science topics like computer

systems architecture, data structures, computer networks, operating systems, computer graphics,
algorithms, software engineering, database management, theory of computation, artificial intelligence, and information security

The programme builds a base for entry level jobs in information technology and prepares the students for higher studies in the area of Computer Science/Applications

<h3>2. Learning Outcome-based Curriculum Framework for B.Sc. (H) Computer Science programme</h3>

Develop theoretical foundations in computer science.

Develop expertise in programming skills using high level programming languages.

Develop skills to design, implement and document the solutions for computational problems.

<h3>3. Graduate Attributes in B.Sc. (H) Computer Science</h3>

Disciplinary knowledge

<p>Ability to build (either independently or by joining higher academic program) on of the core computer science concepts learnt in the course.</p>

Problem solving

<p>Graduates are equipped with skills to solve the computational problems at their workplace and for the society.</p>

Communication Skills

<p>Graduates demonstrate effective communication and presentation skills while interacting with

professional peers and in the society.</p>

</div>

<div class="d2">

<h2> Paper Names And Credit</h2>

</div>

<table id="t1">

<tr>

<th>S.no</th>

<th>Paper Name</th>

<th>Credits</th>

</tr>

<tr>

<td>1</td>

<td>Programming Fundamental Using C++</td>

<td>6</td>

</tr>

<tr>

<td>2</td>

<td>Computer System Architecture</td>

<td>6</td>

</tr>

<tr>

<td>3</td>

<td>Data Structure</td>

<td>6</td>

```
</tr>

<tr>

<td>4</td>

<td>Discrete Structure</td>

<td>6</td>

</tr>

<tr>

<td>5</td>

<td>Java Programming</td>

<td>6</td>

</tr>

<tr>

<td>6</td>

<td>Computer Network</td>

<td>6</td>

</tr>

<tr>

<td>7</td>

<td>Operating System </td>

<td>6</td>

</tr>

<tr>

<td>8</td>

<td>Design And Analysis of Agorithm</td>

<td>6</td>

</tr>

<tr>

<td>9</td>
```

```
<td> DataBase Management System</td>
<td>6</td>
</tr>
<tr>
<td>10</td>
<td>Software Engineering</td>
<td>6</td>
</tr>
<tr>
<td>11</td>
<td>Theory Of Computation</td>
<td>6</td>
</tr>
<tr>
<td>12</td>
<td>Artificial Intelligence</td>
<td>6</td>
</tr>
</table>
```

```
<button align="center">Change Style</button>
<button id="b1" align="center">For Paragraph visibility click </button>
</div>
</body>
</html>
```

B.Sc.(H) Computer Science

General Details

The B.Sc. (H) Computer Science programme is designed to develop analytical & computational thinking, and problem solving skills. It covers the core computer science topics like computer systems architecture, data structures, computer networks, operating systems, computer graphics, algorithms, software engineering, database management, theory of computation, artificial intelligence, and information security. The programme builds a base for entry level jobs in information technology and prepares the students for higher studies in the area of Computer Science/Applications.

1. Introduction to Programme B.Sc. (H) Computer Science

- The B.Sc. (H) Computer Science programme is designed to develop analytical & computational thinking, and problem solving skills.
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2. Learning Outcome-based Curriculum Framework for B.Sc. (H) Computer Science programme

- Develop theoretical foundations in computer science.
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- Disciplinary knowledge
Ability to build (either independently or by joining higher academic program) on of the core computer science concepts learnt in the course.

- Problem solving

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Paper Names And Credit

S.no	Paper Name	Credits
1	Programming Fundamental Using C++	6
2	Computer System Architecture	6
3	Data Structure	6
4	Discrete Structure	6
5	Java Programming	6
6	Computer Network	6
7	Operating System	6
8	Design And Analysis of Algorithm	6
9	DataBase Management System	6
10	Software Engineering	6
11	Theory Of Computation	6
12	Artificial Intelligence	6

[Change Style](#) | [For Paragraph visibility click](#)

General Details

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Graduates are equipped with skills to solve the computational problems at their workplace and for the society.

- Communication Skills

Graduates demonstrate effective communication and presentation skills while interacting with professional peers and in the society.

Paper Names And Credit

S.no	Paper Name	Credits
1	Programming Fundamental Using C++	6
2	Computer System Architecture	6
3	Data Structure	6
4	Discrete Structure	6
5	Java Programming	6
6	Computer Network	6
7	Operating System	6
8	Design And Analysis of Algorithm	6
9	DataBase Management System	6
10	Software Engineering	6
11	Theory Of Computation	6
12	Artificial Intelligence	6

[Change Style](#) [For Paragraph visibility click](#)

Question9

```
<!DOCTYPE html>

<html lang="en">

<head>

<title>PRACTICAL-9</title>

<meta charset="utf-8">

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

<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

<style type="text/css">

img{

height:350px;

width:350px;
```

```
padding: 5px ;  
}  
  
</style>  
  
</head>  
  
<body>  


# Responsive image gallery







</div>



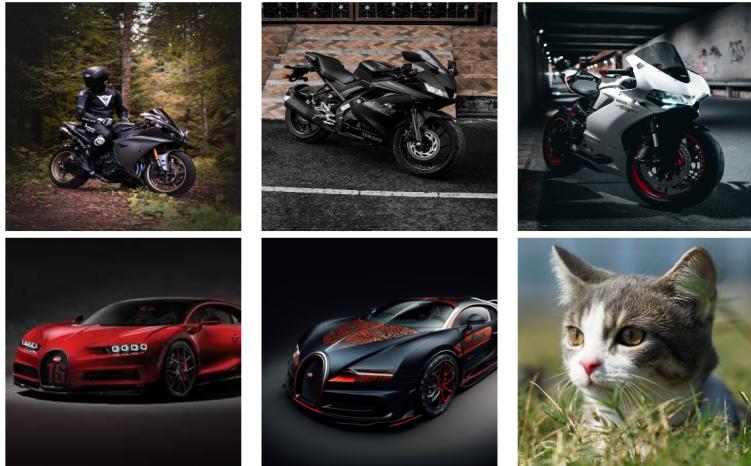
</body>



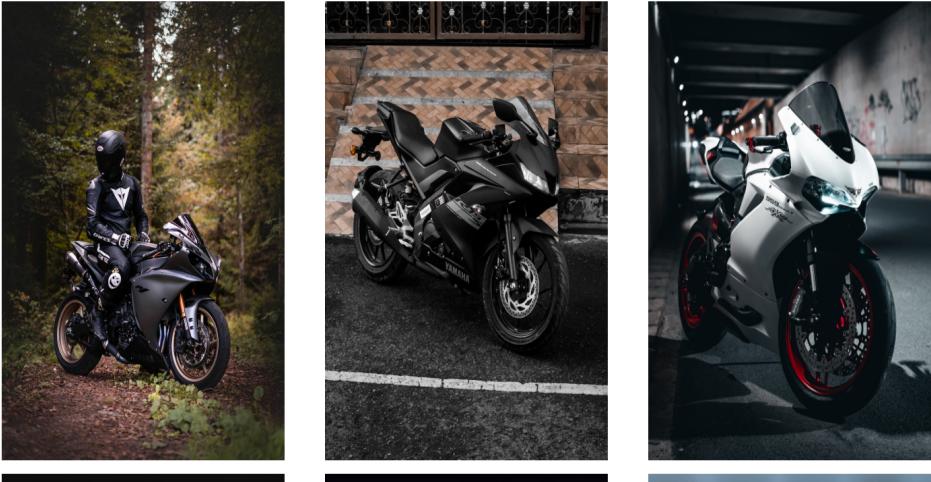
</html>


```

Responsive image gallery



Responsive image gallery



Question10

The screenshot shows a development environment with the following components:

- Code Editor:** An open file named `nodeJS.js` containing Node.js code to create a server and log "hello".
- Terminal:** Shows the command `node nodeJS.js` being run in a Windows command prompt (PS). The output shows the server starting at port 10000 and logging "hello".
- Browser Preview:** A browser window showing the text "hello World, this is my Node.js server".
- Bottom Navigation:** Includes links for Colab Notebooks, WhatsApp, and DAV Project.ipynb.

hello World, this is my Node.js server

Question11

```
const http = require('http');
const fs = require("fs");
```

```
const mysql = require("mysql");
const qs = require('querystring');

//creating connection to dbms

const mycon = mysql.createConnection({
    host:"localhost",
    user :"admin",
    password:"root",
    database:"q11db",
    insecureAuth : true
})

mycon.connect((err,data)=>{
    if(err){
        console.log("unable to connect to db ", err.message)
    }else{
        console.log("db connected")
    }
})

//creating server

const server = http.createServer((req,res)=>{
    const path = req.url
    //storeVisitorsLogs(req);
    if(path == '/welcome'){
        loadWelcome(res)
    }else if(path == '/'){
        loadIndex(res)
    }
})
```

```

}else if(req.method == 'POST' && path =='signup'){

funSignUp(req,res)

}else if(req.method == 'POST' && path =='signin'){

funSignIn(req,res)

}

})

server.listen(3000,()=>{

console.log("server started")

})

```

//-----function of signup -----

```

function funSignUp(req,res){

var body = "";

req.on('data', (chunk) => {

body += chunk;

});

req.on('end', () => {

var d = qs.parse(body);

var query = `INSERT INTO users VALUES ( ?, ?, ?)`;

mycon.query(query,[d.username,d.name,d.pass],(err,data)=>{

if(err){

console.log("error in insertion ",err)

res.statusCode = 409

res.write("chose other user name")

res.end()

}else{

console.log("inserted")

```

```
res.statusCode = 201

res.writeHead(302, { 'Location': '/' });

res.end()

}

})

}

}

//=====function of sign in =====

function funSignIn(req,res){


```

```
var body = '';

//working with the body of a POST request

req.on('data', (chunk) => {

  body += chunk;

});

//---- triggered when entire entire request has been received.

//----when all data has been received for the request.

req.on('end', () => {

  var d = qs.parse(body);

  var query = `SELECT * FROM users where username = ? AND password = ?`;

  mycon.query(query,[d.username , d.pass],(err,data)=>{

    if(err){

      console.log("error in server ")

      res.statusCode = 404

      res.write("error in server")

      res.end()

    }

  })

})
```

```
    }else{
        console.log(data)
        if(data.length == 1){
            res.statusCode = 200;
            res.writeHead(302, { 'Location': '/welcome'});
            res.end();
        }else{
            res.statusCode = 409 ;
            res.write("sign in failed")
            res.end();
        }
    })
}
}

//=====function to load index.html=====
function loadIndex(res){
    fs.readFile("index.html",async (err,data)=>{
        if(err){
            console.log("reading file failed")
            res.write("text file nii milla")
            res.end()
        }else{
            if(res.write(data)){
                res.statusCode = 200
                res.end()
            }
        }
    })
}
```

```

        }
    }
})

}

//=====function to LOAD WELCOME PAGE=====

function loadWelcome(res){
    fs.readFile("welcome.html", async (err,data)=>{
        if(err){
            res.write("error in loading welcome page")
            res.end()
        }else{
            res.write(data)
            res.end();
        }
    })
}

//=====

function storeVisitorsLogs(req){
    var str = req.headers['x-forwarded-for'] || req.connection.remoteAddress;
    var d = new Date();
    const months = ['January', 'February', 'March', 'April',
    'May', 'June', 'July', 'August',
    'September', 'October', 'November', 'December'
];
    fs.appendFile("serverlogs.txt", `${d.getDay()} ${months[d.getMonth()]} ${d.getHours()}:${d.getMinutes()}:${d.getSeconds()} ${str} : ${req.method}\n${req.url}`,(err)=>{
        if(err){

```

```
    console.log("unable to log")  
}  
else{  
    console.log("logged the visitor to log txt file")  
}  
}  
})  
}  
}
```

ADDITIONAL QUESTIONS

program1: Displaying digital clock

```
<html>  
<head>  
<title>Digital Clock</title>  
<style>  
body{  
background-color: rgb(204, 127, 255);  
}  
  
#clock {  
font-size: 100px;  
text-align: right;  
padding-right: 20px;  
}  
</style>  
</head>  
<body>  
<div id="clock"></div>
```

```
<script>

function updateClock() {
    var now = new Date();
    var hr = now.getHours();
    var min = now.getMinutes();
    var sec = now.getSeconds();
    var timeString = `${hr}:${min}:${sec}`;
    document.getElementById('clock').textContent = timeString;
}

function abc(){
    setInterval(updateClock, 1000);
}
abc();

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

18:33:38

Program2: Greeting program according to time entered by the user

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

<body>

<script>

var a = prompt("Enter time between 0 to 24 hrs");

if (a>0 & a<12)

alert("good morning");

else if(a>=12 & a<=16)

alert("good afternoon");

else if(a>16 & a<20)

alert("good evening");

else if(a>20 & a<24)

alert("good night");

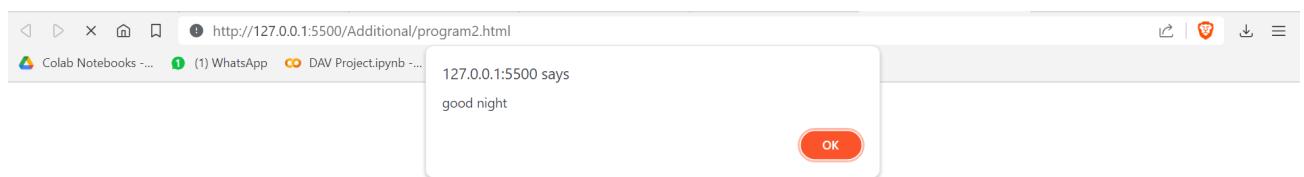
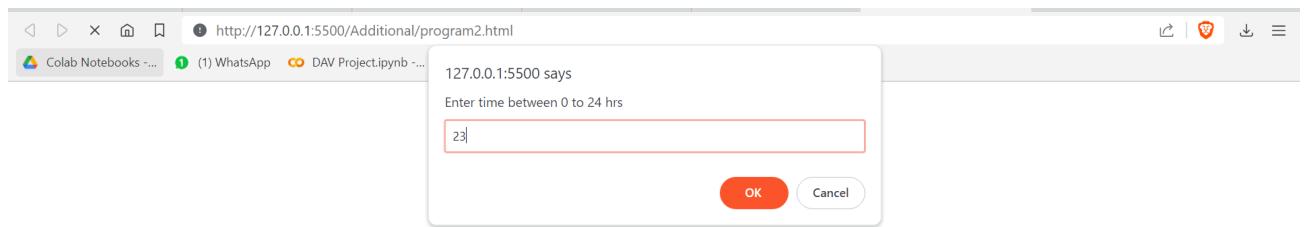
else

alert("not valid");

</script>

</body>

</html>
```



Program3: stack program push and pop operations

```
<html>
  <head>
    <title>
      STACK
    </title>
  </head>
  <style>
    body{background-color:rgba(255, 196, 196, 0.087)}
  </style>
  <body>
    enter text:<input type="number" id="0"/>
    <button id="b1" onclick="f1()">PUSH</button>
    <button id="b2" onclick="f2()">POP</button><br><br>
    <label id="1">Stack</label>
    <textarea rows="10" id="2"></textarea><br>
    <script>
```

```
const arr=new Array();

function f1(){

var v1=document.getElementById("0").value;

if(v1==""){

alert("value is empty");

}

else{

arr.push(v1);

document.getElementById("0").value="";

var s="";

for(var i=arr.length-1;i>=0;i--){

s=s+arr[i]+\n;

}

document.getElementById("2").value=s;

}

}

function f2(){

if(arr.length==0){

alert("stack is empty");

}

else{

arr.pop();

var s="";

for(var i=arr.length-1;i>=0;i--){

s=s+arr[i]+\n;

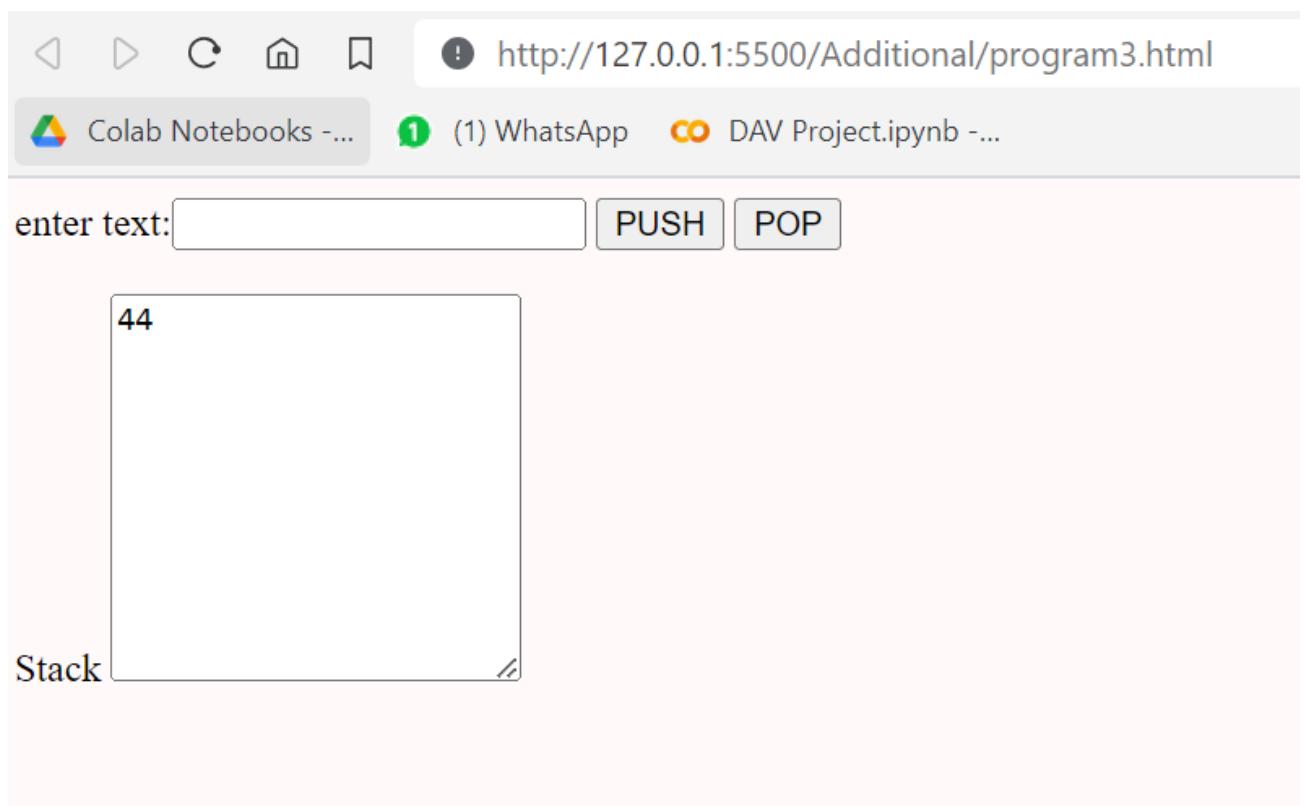
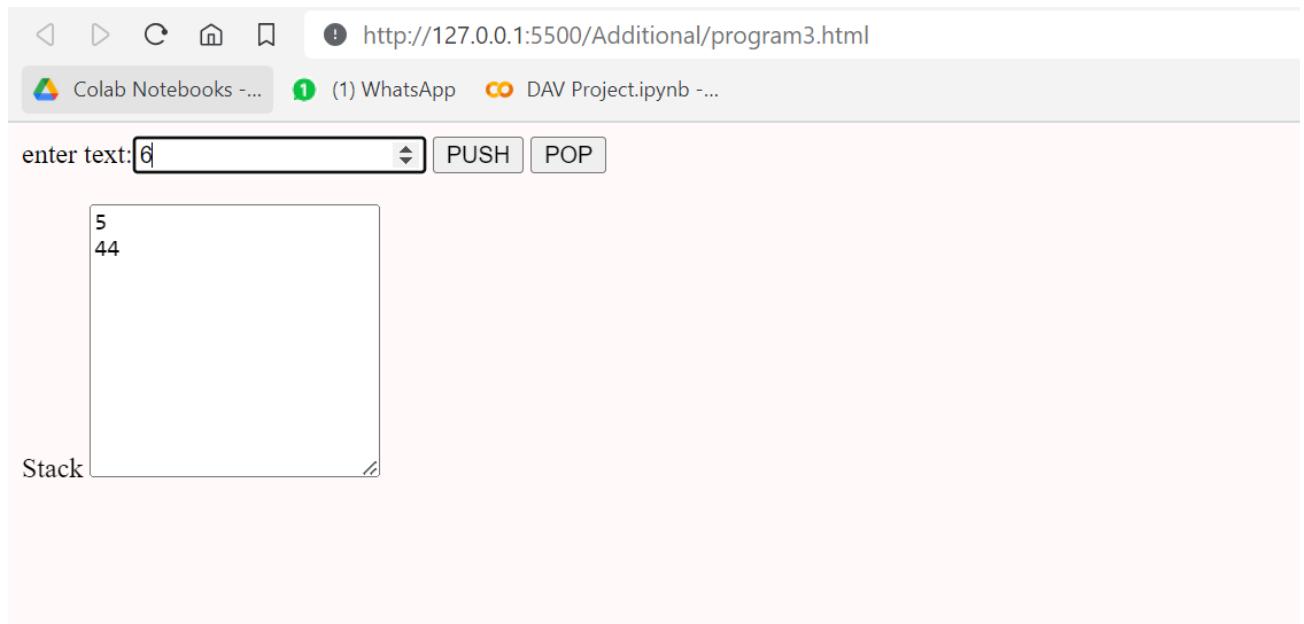
}

document.getElementById("2").value=s;

}

}
```

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



Program4:

- a. Zoom in and Zoom out image on mouseover event
- b. Sliding image when clicking “start” button and stops sliding image on clicking “stop” button

```
<!DOCTYPE html>

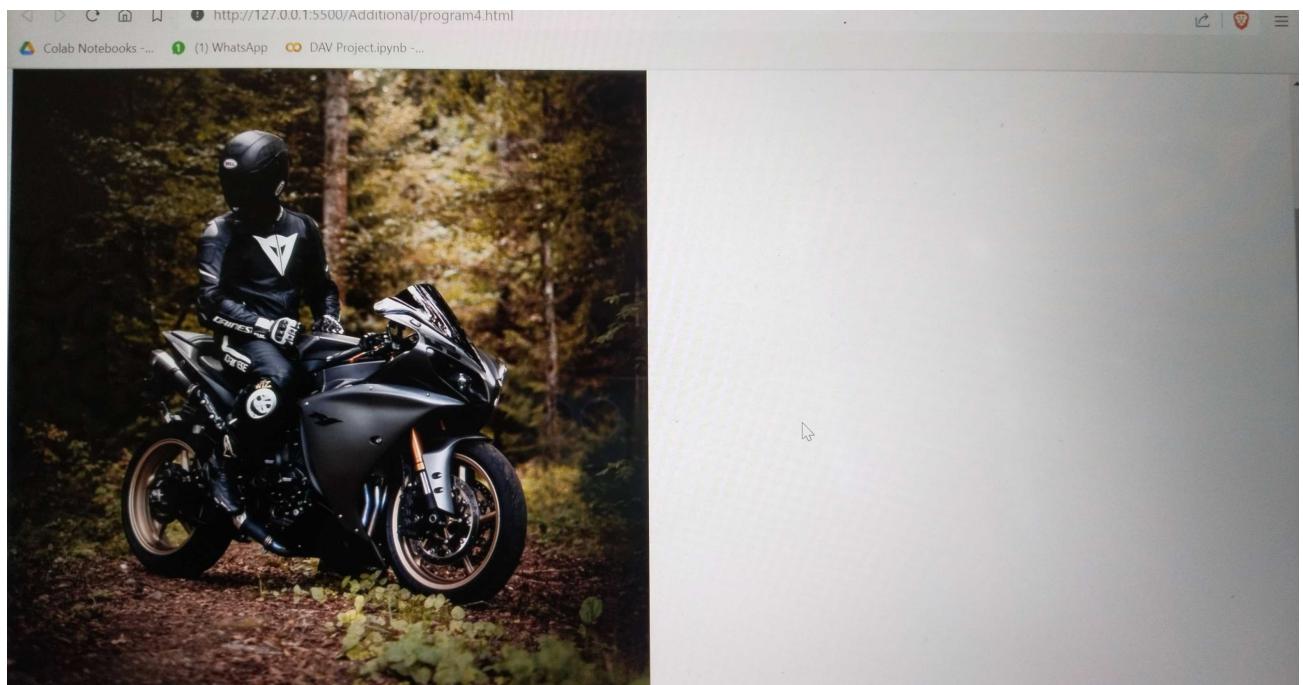
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>

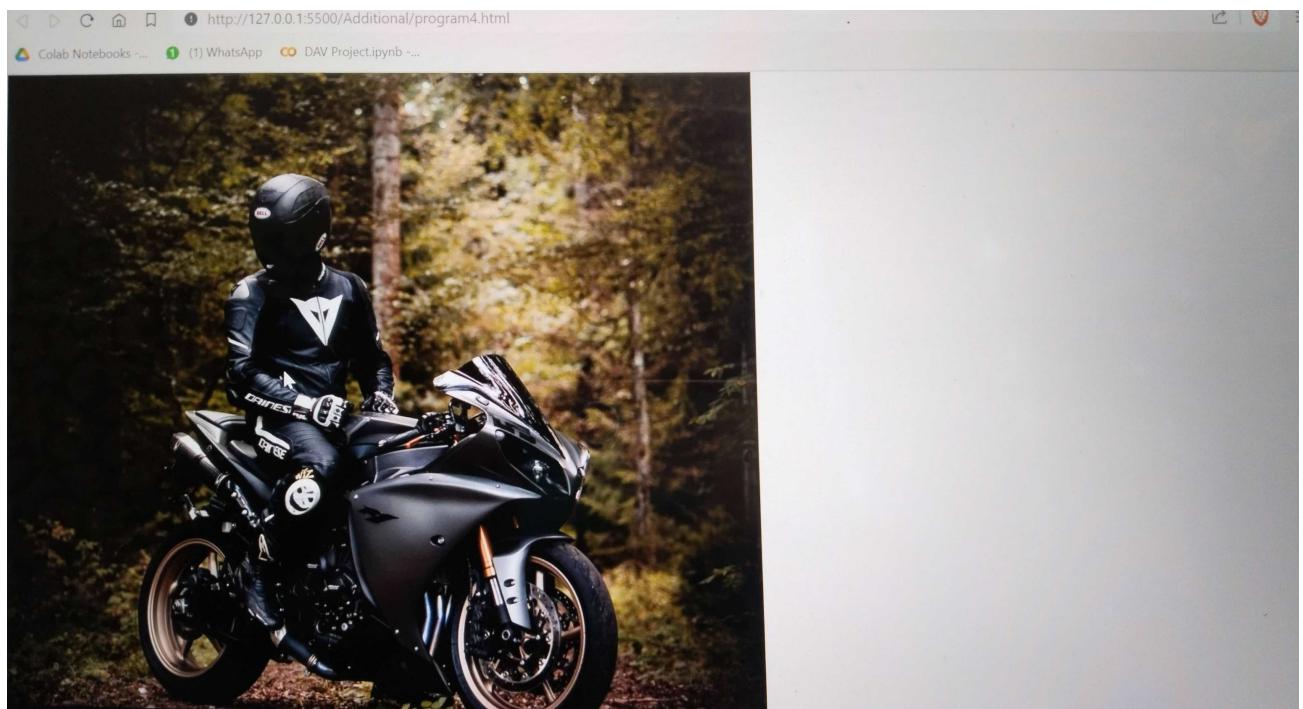
<body>
    

    <form>
        <input type="button" value="start" onclick="change()">
        <input type="button" value="stop" onclick="stop()" >
    </form>
    <script>
        var pad = 0;
        var time;
        function zoomin(){
            document.getElementById("img1").style.width=623+"px"
            document.getElementById("img1").style.width=722+"px"
        }
        function zoomout(){
    
```

```
document.getElementById("img1").style.width=523+"px"  
document.getElementById("img1").style.width=622+"px"  
}  
  
function change(){  
    time= setInterval(image,100);  
}  
  
function stop(){  
    clearInterval(time);  
}  
  
function image(){  
    document.getElementById("img1").style.paddingLeft=pad+"px";  
    pad = pad+100;  
    if(pad >window.innerWidth-593){  
        pad=0  
    }  
}  
  
change();  
</script>  
  
</body>  
</html>
```



ZOOMED IMAGE.....



SLIDING IMAGE.....

