

Q.1 Create a user defined module named Math with four functions Addition,Subtraction,Multiplication,division and exports.

```
const math = require('math');
var a = 20, b = 20;
console.log("Addition: -" + math.add(a, b));
console.log("Subtraction: -" + math.sub(a, b));
console.log("Multiplication: -" + math.mul(a, b));
console.log("Division: -" + math.div(a, b));
```

Q.2 Display hostname and platform details of current system on the console.

```
const os = require('os');

console.log('Platform of OS:', os.platform());
console.log('Hostname of OS:', os.hostname());
```

Q.3 Create a Node js script file that display Hello text in red color and welcome to node js text in rainbow colors on the console.

```
var c = require("colors");
console.log("hello".red);
console.log("welcome to node js".rainbow);
```

Q.4 Create a Node js Script that displays a message “Welcome to Node js Lecture” through a loop with delay in between iterations using setTimeout()?

```
var message = "Welcome to Node.js Lecture";
var iterations = 5;

function displayMessage(i)
{
  if (i < iterations)
  {
    console.log(message);
  }
  if (i < iterations - 1)
  {
    setTimeout(() => displayMessage(i + 1), 1000);
  }
}
```

```
displayMessage(0);
```

Q.5 Write Node script file to display Current date and time by using user defined date module.

```
var datetime = new Date();  
console.log(datetime);
```

Q.6 Display Directory name, file extension and file name on command prompt using node.

```
const path = require('path');  
const fs = require('fs');  
  
const directoryName = path.basename(__dirname);  
  
fs.readdir(__dirname, (err, files) =>  
{  
  if (err)  
  {  
    console.error('Error reading directory:', err);  
    return;  
  }  
  
  files.forEach(file =>  
  {  
    console.log(`Directory: ${directoryName}`);  
    console.log(`File Name: ${path.basename(file, path.extname(file))}`);  
    console.log(`Extension: ${path.extname(file)}`);  
    console.log('-----');  
  });  
});
```

Q.7 Create an Animate an element ,by changing its left to right in jquery code and css.

```
<html>  
<head>  
  <title>Animated Element</title>  
  <style>  
    #animated-element
```

```

{
  width: 200px;
  height: 50px;
  background-color: lightblue;
  position: absolute;
  top: 50%;
  left: 0;
  transform: translateY(-50%);
}
</style>
</head>

<body>
  <div id="animated-element">This is the element to animate</div>

  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

  <script>
    $(document).ready(function()
    {
      $("#animated-element").animate({ left: "50%", {duration: 2000,easing: "swing"}});
    });
  </script>
</body>
</html>

```

Q.8 Show the output

Jquery Topics Are

Selectors Types are

- ID Selector
- Class Selector
- Universal Selector

Parameters:It accept three parameters that are specified below

1. event:
2. event:
3. data:This is the function that. Selected element

Jquery Events

- MouseOver
- Mouseleave

```

<html>
<head>
<title>Unordered list
</title>
<script src="jquery"></script>
<script>

```

```

$(document).ready(function()
{
$("#p.mark").css("background-color","yellow");
$("#mark span").css("background-color","aqua");
$("#ul li").css("background-color","yellow");
$("#ul#mark li").css("background-color","yellow");
$("#ul.mark li").css("background-color","pink");
}
) </script>
</head>
<body>
<p>mca-147</p>
<p>Jquery Topics Are</p>
<p class="ST">Selectors Types are</p>
<ul>
<li>ID Selector</li>
<li>Class Selector</li>
<li>Universal Selector</li>
</ul>
<ol id="mark"><p>Parameters:It accept three parameters that are specified below</p>
<li>event:</li>
<li>event:</li>
<li>data:This is the function that...<span>Selected element</span></li>
</ol>
<ul class="mark">
<p>jquery Evenets</p>
<li>MouseOver</li>
<li>Mouseleave</li>
</ul>
</body>
</html>

```

Q.9 show rgb color using jquery

```

<html>
<head>
<title>Click to Show RGB Color</title>
<style>
body
{
font-family: Arial, sans-serif;
margin: 20px;
}

```

```

.color-box
{
  width: 100px;
  height: 100px;
  margin: 10px;
  display: inline-block;
  cursor: pointer;
}
#red-box
{
  background-color: rgb(255, 0, 0);
}
#green-box
{
  background-color: rgb(0, 128, 0);
}
#blue-box
{
  background-color: rgb(0, 0, 255);
}
#color-display
{
  font-weight: bold;
  margin-top: 20px;
}
</style>
</head>

<body>
  <h1>Click a box to see its RGB color</h1>
  <div class="color-box" id="red-box"></div>
  <div class="color-box" id="green-box"></div>
  <div class="color-box" id="blue-box"></div>

  <p id="color-display"></p>

  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
  <script>
    $(document).ready(function()
    {
      $(".color-box").click(function()
      {
        $("#color-display").text($(this).css("background-color"));
      });
    });
  </script>

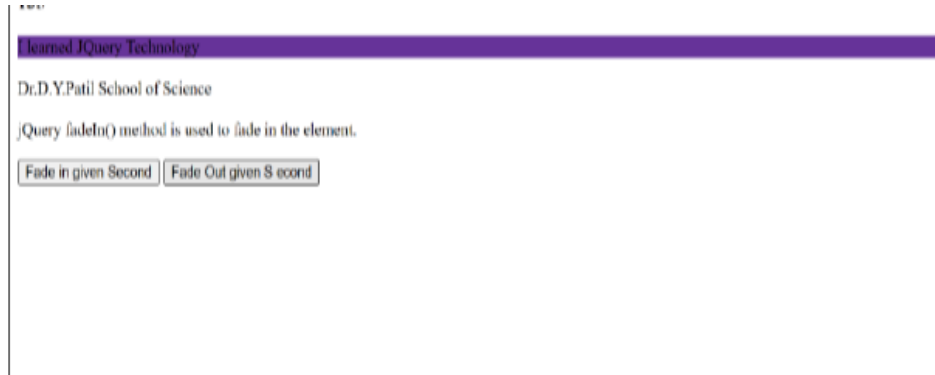
```

```

});
</script>
</body>
</html>

```

Q.10 Show the output (Fade in Fade Out)



```

<html>
<head>
<title>Fade In Out Example using Seconds</title>
<script src="jquery-3.7.1.min.js"></script>
<script>
$(document).ready(function()
{
$("#btn1").click(function()
{
$("#div").fadeOut(3000);
});
$("#btn2").click(function()
{
$("#div").fadeIn(3000);
});
$("#p:last").click(function()
{
$("#p").fadeTo("slow",0.40);
});
});
</script>
</head>
<body>
<div style="background:rgba(130, 58, 140, 0.185);width:100%;">I learned JQuery

```

```

Technology</div>
<p>Dr.D.Y.Patil School of Science</p>
<p>jQuery fadeIn() method is used to fade in the element. </p>
<button id="btn2">Fade in given Second</button>
<button id="btn1">Fade Out given Second</button>
</body>
</html>

```

Q.11 Write down the script using jquery ajax(),getJSON(),send().

1. JQUERY AJAX()

```

<html>
<head>
<script src=""></script>
<script>
$(document).ready(function()
{
    $("button").click(function()
    {
        $.ajax({url: "demo_test.txt", success: function(result)
        {
            $("#div1").html(result);
        }});
    });
});
</script>
</head>
<body>

<div id="div1"><h2>Let jQuery AJAX Change This Text</h2></div>

<button>Get External Content</button>

</body>

```

2. GetJson()

```

<html>
<head>
<script src=""></script>

```

```

<script>
$(document).ready(function()
{
    $("button").click(function()
    {
        $.getJSON("demo_ajax_json.js", function(result)
        {
            $.each(result, function(i, field)
            {
                $("div").append(field + " ");
            });
        });
    });
});
</script>
</head>
<body>

```

```

<button>Get JSON data</button>

```

```

<div></div>

```

```

</body>
</html>

```

3. Send

```

<html>
<head>
<script src=""></script>
<script>
$(document).ready(function()
{
    $(document).ajaxSend(function(e, xhr, opt)
    {
        $("div").append("<p>Requesting " + opt.url + "</p>");
    });
    $("button").click(function()
    {

```



```

        $("div").load("demo_ajax_load.asp");
    });
});
</script>
</head>
<body>

<div><h2>Let AJAX change this text</h2></div>

<button>Change Content</button>

</body>
</html>

```

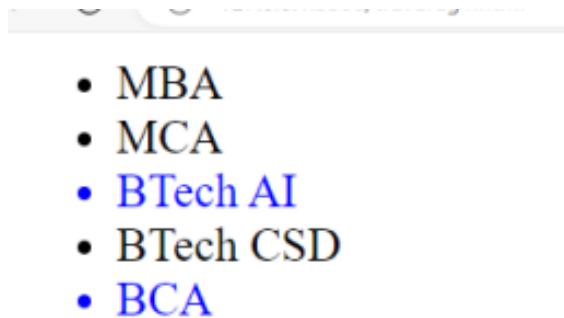
Q.12 Write down database connectivity ajax with php

Mahi	12323232323	9812121212	Daughter
Siya	78778778787	9812121227	Friend

Q.13 Write the below code using addclass()

- ☐ .MCA
- ☐ .MBA
- ☐ .MSW

Q.14 Show the below output



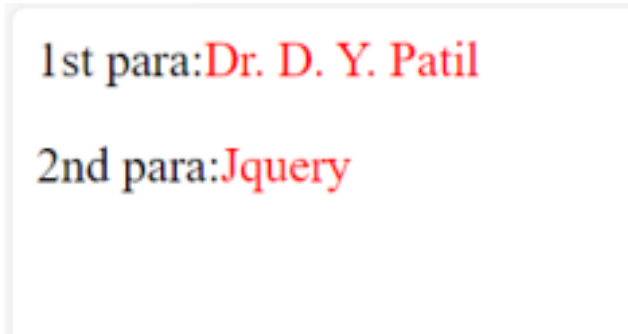
```

<html>
<head>
    <title>Document</title>
</head>
<body>

```

```
<ul>
  <li>MBA</li>
  <li>MCA</li>
  <li style="color: blue;">B Tech AI </li>
  <li>B Tech CSD</li>
  <li style="color: blue;">BCA </li>
</ul>
</body>
</html>
```

Q.15 Show the below output



1st para:Dr. D. Y. Patil

2nd para:Jquery

```
<html>
<head>
  <title>Document</title>
  <style>
    #p1{
      color: red;
    }
  </style>
</head>
<body>
  <p>1st para : <span id="p1">Dr. D. Y. Patil</span> </p>
  <p>2nd para:<span id="p1">Jquery</span></p>
</body>
</html>
```