

# LAB Cycle sheet – 2

Internet and Web Programming

CSE3002

L55+L56

19BCE2141

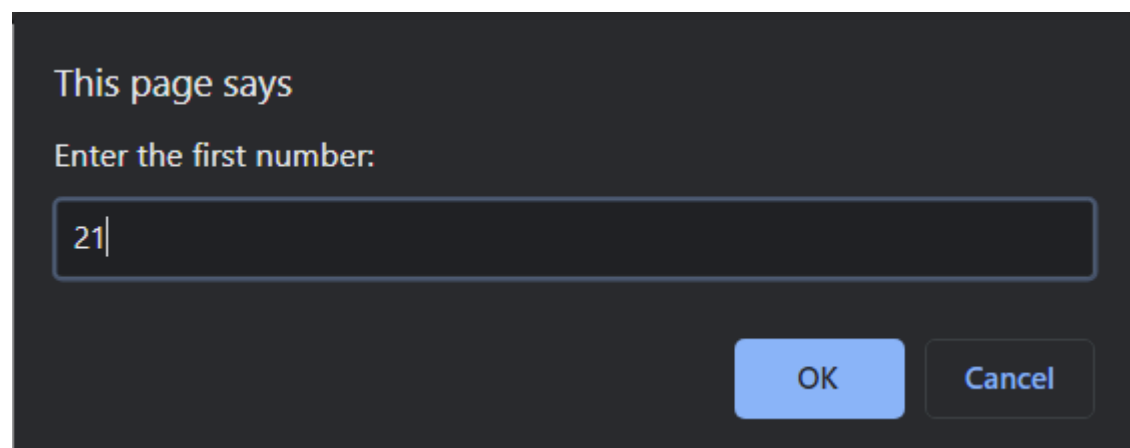
**Q1.**

**Code (HTML and JavaScript) –**

```
<!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>Q1</title>
<script>
    var num1=prompt("Enter the first number: ","0");
    var num2=prompt("Enter the second number: ","0");
    var num3=prompt("Enter the third number: ","0");
    var max=0;
    num1=parseInt(num1);
    num2=parseInt(num2);
    num3=parseInt(num3);
    if(num1>num2 && num1>num3)
    {
        max=num1;
```

```
}  
else if (num2>num1 && num2>num3)  
{  
    max=num2;  
}  
else  
{  
    max=num3;  
}  
</script>  
</head>  
<body>  
    <h1 id="display"></h1>  
    <script>  
        document.getElementById("display").innerHTML = "The maximum is"  
+max;  
    </script>  
</body>  
</html>
```

### Output –



This page says

Enter the first number:

OK Cancel

This page says

Enter the second number:

OK

Cancel

This page says

Enter the third number:

OK

Cancel

Q1

×

+

←

→

↻

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**The maximum is 47**

## Q2.

### Code (HTML and JavaScript) –


```
<!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>Q2</title>
<script>
    function count(arr,n) {
        var c=0;
        for(var i=0;i<n;i++)
        {
            if(arr[i]>13 && arr[i]<29)
                c++;
        }
        return c;
    }
</script>
</head>
<body>
<h1 id="display"></h1>
<script>
    var arr = [21,16,5,9,14,45,40,24,18,60];
    var n=10;
```

```
var c = count(arr,n);

document.getElementById("display").innerHTML = "The number of items
in the array that is greater than 13 and less than 29 are " +c;

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

### Output –



The number of items in the array that is greater than 13 and less than 29 are 5

### Q3.

#### Code(HTML AND JavaScript) –

```
<!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>Q3</title>
<script>

var miles = prompt("Enter the number of miles: ","0");
var cost = prompt("Enter the cost of a gallon: ","0");
var consumption = prompt("Enter the consumption: ","0");
```

```
miles = parseFloat(miles);  
cost = parseFloat(cost);  
consumption = parseFloat(consumption);  
var total = (miles/consumption) * cost;  
document.writeln("<h1>The total cost is Rs "+total+"</h1>");  
</script>  
</head>  
<body>  
</body>  
</html>
```

### Output –

The image displays two sequential screenshots of a web browser interface. The top screenshot shows a dialog box titled "This page says" with the prompt "Enter the number of miles:". A text input field contains the value "1000". To the right of the input field are two buttons: "OK" (highlighted in blue) and "Cancel". The bottom screenshot shows a similar dialog box with the prompt "Enter the cost of a gallon:". The text input field contains the value "55". Again, "OK" and "Cancel" buttons are present at the bottom right, with "OK" highlighted in blue.

This page says

Enter the consumption:

OK Cancel

← → ↻ ⓘ File | D:/Study%20Material/SEM%204/IWP/Cyclesheet%202/Q3.html

**The total cost is Rs 5500**

**Q4.**

**Code(HTML and JavaScript) –**

```
<!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>Q4</title>
<script>
function happy_number(num) {
  var m, n
  var c = []
```

```
while (num != 1 && c[num] !== true) {  
    c[num] = true  
    m = 0  
    while (num > 0) {  
        n = num % 10  
        m += n * n  
        num = (num - n) / 10  
    }  
    num = m  
}  
return num == 1  
}
```

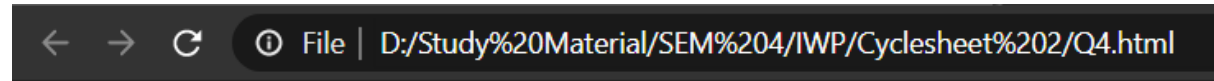
```
var cnt = 5  
var num = 1  
var f5 = ""  
while (cnt-- > 0) {  
    while (!happy_number(num)) num++  
    f5 = f5 + (num + ' ')  
  
    num++  
}  
document.writeln('<h1>First 5 happy numbers are : ' + f5 + '</h1>')  
</script>  
</head>  
<body>
```



</body>

</html>

**Output –**



**First 5 happy numbers are : 1 7 10 13 19**

**Q5.**

**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>Q5</title>
```

```
<link rel="stylesheet" href="Q5.css">
```

```
<script src="Q5.js"></script>
```

```
</head>
```

```
<body>
```

```
  <h1 class="center">Greeting Card</h1><br>
```

```
  <div class="center">
```

```
    <div class="card" id="bimg">
```

```

<form>

    <input type="text" placeholder="Insert Heading Here"
class="heading">

    <br><br><br>

    <div id="imgContainer">

    </div>

    <br><br><br>

    <textarea cols="60" rows="13" placeholder="Enter the body of the
greeting card here" class="body" id="btext"></textarea>

</form>

</div>

</div>

<br>

<span class="option">Choose a background image:</span>

<br><br>

<div class="flex">

</div>

<br>

<span class="option">Choose position of the image: </span>

<br><br>

<div class="flex">

<span class="color-options" style="padding: 10px 20px;"  
onclick="changePosition('left')">left</span>

<span class="color-options" style="padding: 10px 20px;"  
onclick="changePosition('center')">center</span>

<span class="color-options" style="padding: 10px 20px;"  
onclick="changePosition('right')">right</span>

</div>

<br>

<span class="option">Choose a font size for the body:</span>

<br><br>

<div class="flex">

<span class="color-options" style="font-size: 14px; padding: 10px 20px;"  
onclick="upDate\_size(14)">14px </span>

<span class="color-options" style="font-size: 16px; padding: 10px 20px;"  
onclick="upDate\_size(16)">16px </span>

<span class="color-options" style="font-size: 18px; padding: 10px 20px;"  
onclick="upDate\_size(18)">18px</span>

</div>

<br>

<span class="option">Choose a font color for the body:</span>

<br><br>

<div class="flex">

```
<span class="color-options" style="color: blue; padding: 10px 20px;"
onclick="upDate_color('blue')">Blue </span>
```

```
<span class="color-options" style="color: red; padding: 10px 20px;"
onclick="upDate_color('red')">Red </span>
```

```
<span class="color-options" style="color: black; padding: 10px 20px;"
onclick="upDate_color('black')">Black</span>
```

```
</div>
```

```
</body>
```

```
</html>
```

## CSS

```
.center {
```

```
    text-align: center;
```

```
}
```

```
.card {
```

```
    border: black solid medium;
```

```
    display: inline-block;
```

```
    text-align: center;
```

```
    background-image: url(https://img.freepik.com/free-photo/hand-painted-
watercolor-background-with-sky-clouds-shape_24972-
1095.jpg?size=626&ext=jpg);
```

```
    padding: 20px;
```

```
    background-size: 592px 592px;
```

```
}
```

```
.heading {
```

```
    border: none;
```

```
    background: none;
```

```
    font-size: 24px;
```

```
    text-align: center;
    font-weight: 600;
}
.body {
    border: none;
    background: none;
    font-size: 18px;
    font-family: Arial, Helvetica, sans-serif;
}
.option {
    font-size: 20px;
    font-weight: bold;
    margin-left: 10px;
}
.flex {
    display: flex;
}
.flex img {
    width: 200px;
    height: 200px;
    margin: 0px 10px;
    border: black 2px solid;
}
#imgContainer {
    display: flex;
    width: 100%;
```

```
}
```

```
#cardImage {  
    display: block;  
}
```

```
.flex img:hover{  
    cursor: pointer;  
}
```

```
.color-options:hover{  
    cursor: pointer;  
}
```

```
.heading:focus{  
    outline: none;  
}
```

```
.body:focus{  
    outline: none;  
}
```

### **JavaScript**

```
function upDate_img(img) {  
    var x = document.getElementById('bimg')  
    x.style.backgroundImage = 'url(' + img.src + ' )'  
}
```

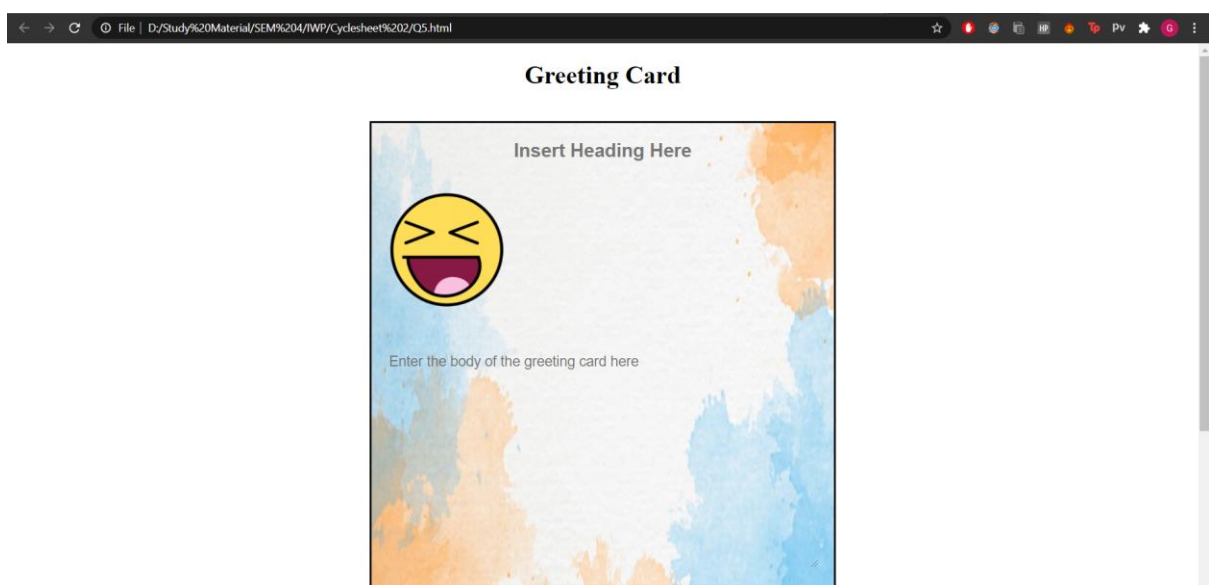
```
function upDate_color(color) {  
    var x = document.getElementById('btext')  
    x.style.color = color  
}
```

```
function upDate_size(num) {  
    var x = document.getElementById('btext')  
    x.style.fontSize = num + 'px'  
}
```

```
function changePosition(position) {  
    var x = document.getElementById('imgContainer')  
    if (position == 'left') {  
        x.style.justifyContent = 'flex-start'  
    } else if (position == 'right') {  
        x.style.justifyContent = 'flex-end'  
    } else {  
        x.style.justifyContent = 'center'  
    }  
}
```

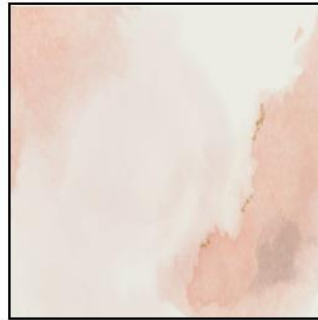
## Output –

### Initially



## Options

Choose a background image:



Choose position of the image:

left      center      right

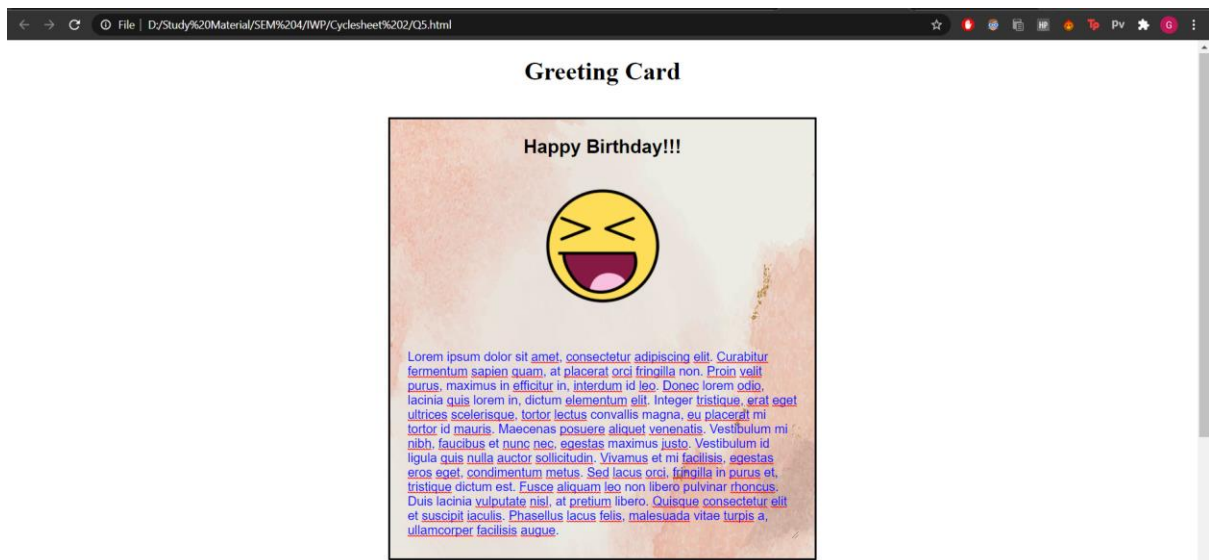
Choose a font size for the body:

14px      16px      18px

Choose a font color for the body:

Blue      Red      Black

## After changing some options





**Q6.**

**Code(HTML and JavaScript) –**

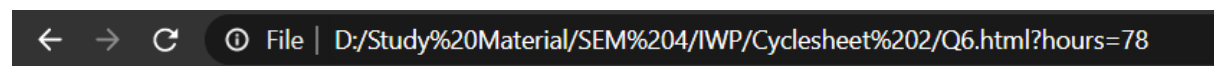
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Q6</title>
</head>
<body>
  <form>
    <h1>
      <label for="hours">Enter the number of hours: </label>
      <input type="text" id="hours" name="hours" value="0">
      <button type="button" value="submit"
onclick="calculate_Charges()">Submit</button>
    </h1>
  </form>
  <h1 id="display"></h1>
  <script>
var total = 0.0;
var sum = 0.0;
function calculate_Charges()
{
  sum=0.0;
  var x = document.getElementById("hours").value;
```

```
if(x<=3 && x>0)
    sum = 2.0;
else{
    sum = 2.0
    for(var i=4;i<=x;i++)
        sum = sum + 0.5;
}
if(sum>10)
    sum=10;
total = total + sum;

document.getElementById("display").innerHTML = "The charge for the
customer: $" + sum + "<br>The running total of yesterday's receipt: $" + total;
}
</script>
</body>
</html>
```

## Output –

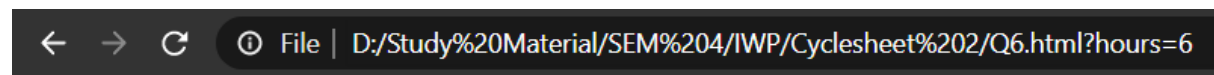
### Initially



**Enter the number of hours:**

Submit

### After entering one value

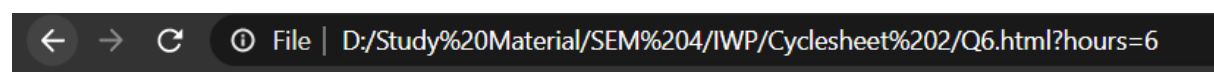


**Enter the number of hours:**

**The charge for the customer: \$2**

**The running total of yesterday's receipt: \$2**

### After entering multiple values



**Enter the number of hours:**

**The charge for the customer: \$10**

**The running total of yesterday's receipt: \$33**

**Q7.**

**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>Q7</title>
```

```
<link rel="stylesheet" href="Q7.css">
```

```
<script src="Q7.js"></script>
```

```
</head>
<body onload="load()">
  <div class="box">
    <span class="word" id="word"></span><br>
    <span class="hint" id="hint"></span>
    <form><input type="text" name="answer" id="answer" class="answer"
placeholder="Enter your answer"></form><br>
    <button class="check" id="check" onclick="button_click()">CHECK
ANSWER</button><br>
  </div>
</body>
</html>
```

## CSS

```
body{
  padding: 20px;
}
.box{
  border: solid black 2px;
  background-color: rgb(196, 193, 193);
  margin: 100px auto;
  width: 50%;
  height: 250px;
  text-align: center;
  padding: 20px;
  box-shadow: 0 12px 16px 0 rgba(0,0,0,0.24), 0 17px 50px 0 rgba(0,0,0,0.19);
}
.word{
```

```
display: inline-block;
color: red;
font-size: 72px;
}
.answer{
margin-top: 10px;
font-size: 18px;
border: none;
background-color: gray;
color: white;
padding: 5px;
text-align: center;
}
.check{
font-size: 16px;
padding: 10px;
background-color: rgb(2, 197, 2);
border-radius: 20px;
color: white;
margin-top: 0px;
border: solid 2px black;
}
.hint{
color: rgb(2, 143, 2);
font-size: 32px;
}
```

```
.answer:focus{
    outline: none;
}
.check:hover{
    background-color: rgb(2, 155, 2);
}
.check:active{
    background-color: rgb(1, 119, 1);
}
.check:focus{
    outline: none;
}
::placeholder{
    color: white;
    opacity: 0.7;
}
```

### **JavaScript**

```
var ques = ["PPLEA","PLTOAP","ECPMORTU","BSMERLCA","EBKODARY"];
var ans = ["APPLE","LAPTOP","COMPUTER","SCRAMBLE","KEYBOARD"];
var hint = ["An _____ a day, keeps the doctor away","A portable device on
which you can play this game","A non-portable device on which you can play
this game","Name of this game","The device you are using to write your
answers"];
var c=0;
var i=0;
var x="";
var s=0;
```

```

function load(){
    i=Math.floor(Math.random()*5);
    document.getElementById("word").innerHTML = ques[i];
    document.getElementById("hint").innerHTML = hint[i];
}

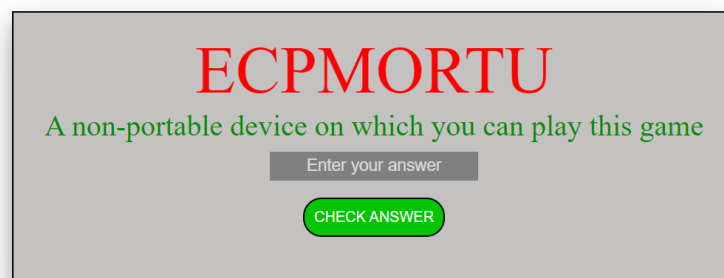
function button_click(){
    x = document.getElementById("answer").value;
    if(ques[i]!="done" && c!=5)
    {
        ques[i]="done";
        x=x.toUpperCase();
        if(x==ans[i]){
            alert("Success");
            s++;
        }
        else
            alert("Wrong Answer");
        c++;
    }
    i = Math.floor(Math.random()*5);
    while(ques[i]=="done" && c!=5)
    {
        i=Math.floor(Math.random()*5);
    }
    if(c!=5)
    {

```

```
document.getElementById("word").innerHTML = ques[i];  
document.getElementById("hint").innerHTML = hint[i];  
}  
else  
{  
    document.getElementById("word").innerHTML = "QUIZ COMPLETE";  
    document.getElementById("hint").innerHTML = "Your Score is: "+s;  
    document.getElementById("answer").style.display="none";  
    document.getElementById("check").style.display="none";  
}  
document.getElementById("answer").value = "";  
}
```

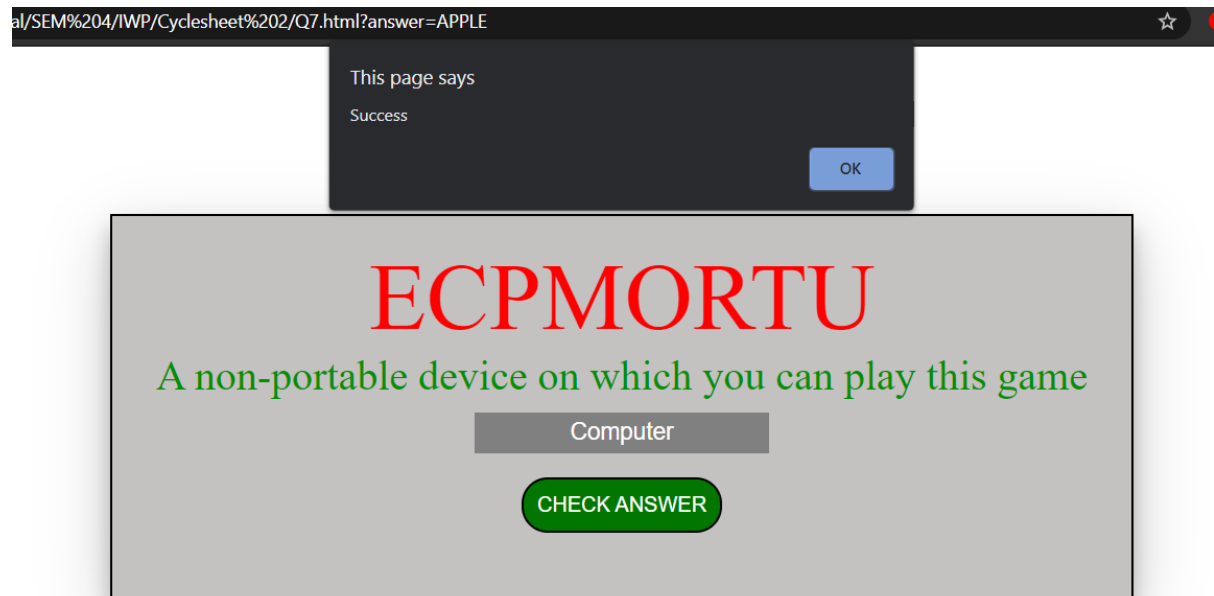
## Output –

### Initially

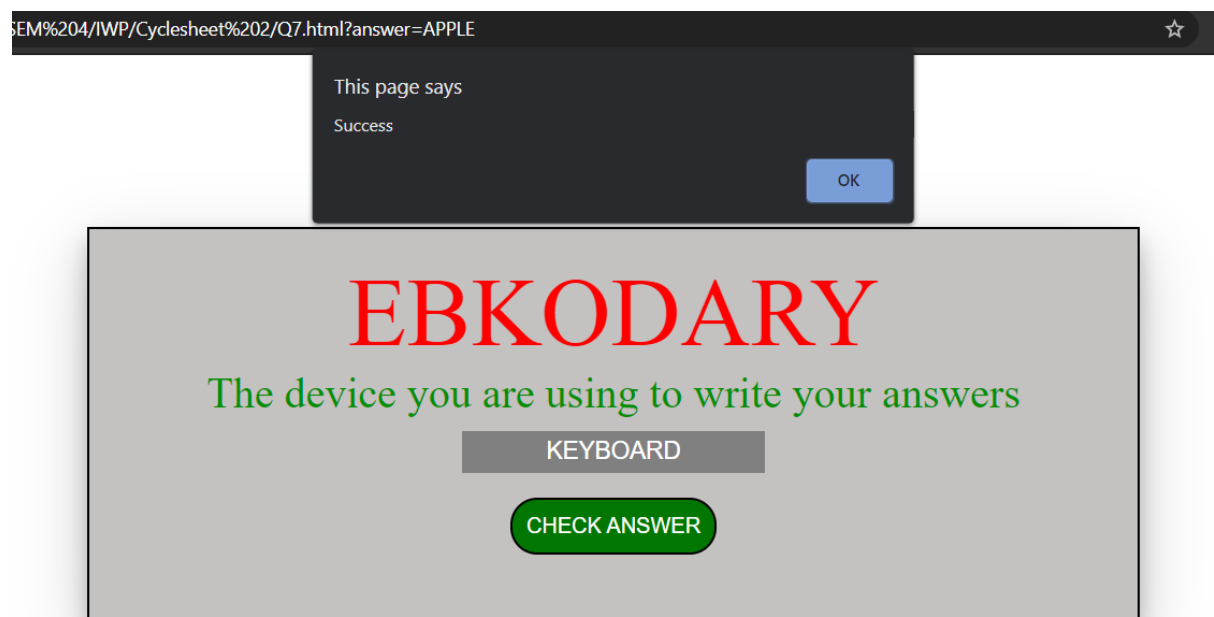




### After 1<sup>st</sup> word



### After 2<sup>nd</sup> word



### After 3<sup>rd</sup> word

SEM%204/IWP/Cyclesheet%202/Q7.html?answer=APPLE

This page says  
Wrong Answer

OK

PPLEA

An \_\_\_\_\_ a day, keeps the doctor away

aple

CHECK ANSWER

### After 4<sup>th</sup> word

SEM%204/IWP/Cyclesheet%202/Q7.html?answer=APPLE

This page says  
Success

OK

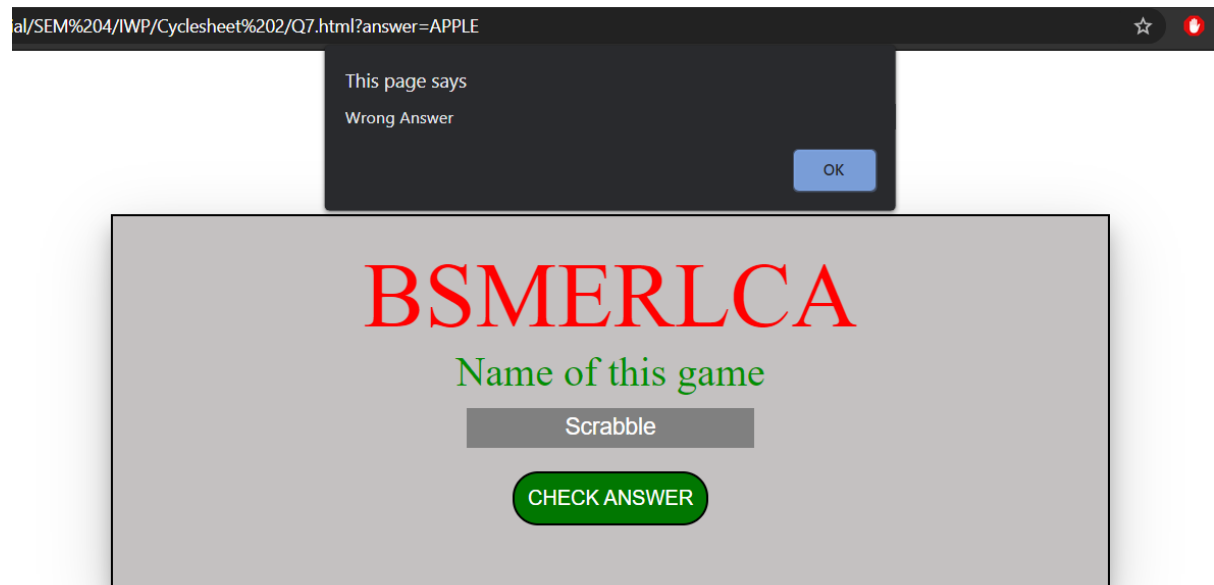
PLTOAP

A portable device on which you can play this game

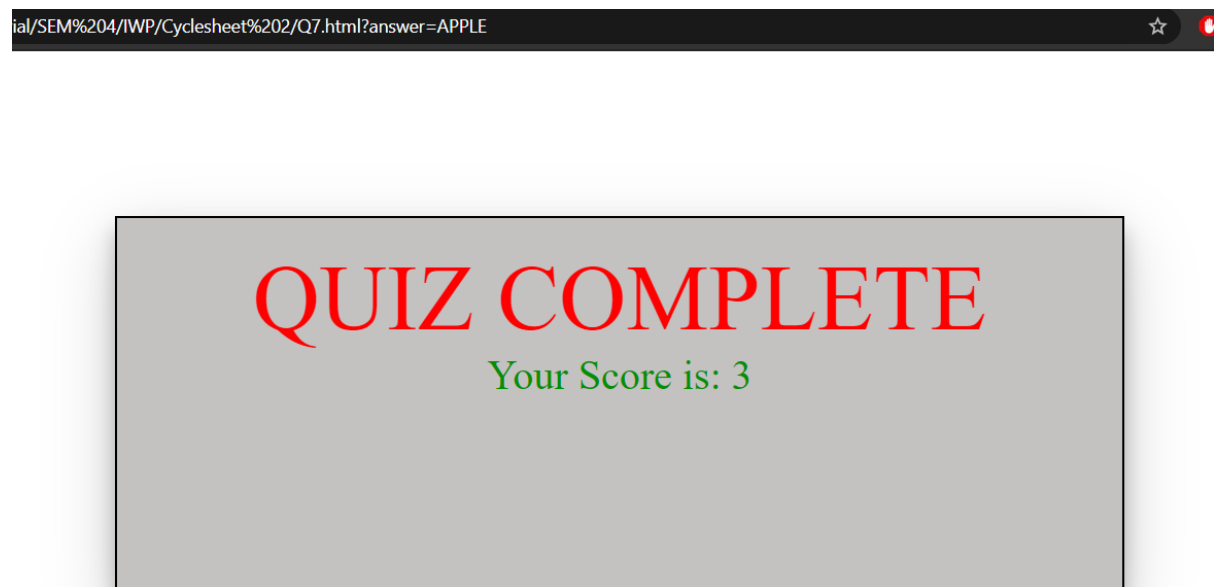
laptop

CHECK ANSWER

## After 5<sup>th</sup>(last) word



## Result



**Q8.**

**Code (HTML and JavaScript) –**

```
<!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>Q8</title>
<script>
    var ano=[];
    var limit=[];
    var bbal=[];
    var exp=[];
    var pay=[];
    var nbal=[];
    var i=0;
    function myfunction(){
        var x=prompt("Account number","0");
        var y=prompt("Balance at the beginning of the month","0");
        var z=prompt("Total of all items charged this month","0");
        var a=prompt("Total of all credits applied to the account this month","0");
        var b=prompt("Allowed credit limit","0");
        x=parseInt(x);
        y=parseInt(y);
        z=parseInt(z);
```

```

        a=parseInt(a);
        b=parseInt(b);
        ano.push(x);
        limit.push(b);
        bbal.push(y);
        exp.push(z);
        pay.push(a);
        nbal[i]=bbal[i]+exp[i]-pay[i];

        document.getElementById("disp").innerHTML += "Account number:
        "+ano[i]+"<br>Beginning balance: "+bbal[i]+"<br>Credit limit:
        "+limit[i]+"<br>Total Expenditure: "+exp[i]+"<br>Total Credit Payments:
        "+pay[i]+"<br>New Balance: "+nbal[i];

        if(nbal[i]>limit[i])

            document.getElementById("disp").innerHTML += "<br>Credit Limit
            Exceeded<br><br>";

        else

            document.getElementById("disp").innerHTML += "<br><br>";

        i++;
    }
</script>
</head>
<body>
    <span id="disp"></span>
    <button onclick="myfunction()">Add new customer</button>
</body>
</html>

```

**Output –**

**Initially**

Add new customer

### Entering values

This page says

Account number

123|

OK

Cancel

This page says

Balance at the beginning of the month

1200|

OK

Cancel

This page says

Total of all items charged this month

200|

OK

Cancel

This page says

Total of all credits applied to the account this month

OK

Cancel

This page says

Allowed credit limit

OK

Cancel

### After entering values

←

→

↺

🔍

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Account number: 123  
Beginning balance: 1200  
Credit limit: 2500  
Total Expenditure: 200  
Total Credit Payments: 300  
New Balance: 1100

Add new customer

### After entering values of two more customers

Account number: 123  
Beginning balance: 1200  
Credit limit: 2500  
Total Expenditure: 200  
Total Credit Payments: 300  
New Balance: 1100

Account number: 124  
Beginning balance: 300  
Credit limit: 500  
Total Expenditure: 200  
Total Credit Payments: 150  
New Balance: 350

Account number: 125  
Beginning balance: 1000  
Credit limit: 1100  
Total Expenditure: 500  
Total Credit Payments: 300  
New Balance: 1200  
Credit Limit Exceeded

Add new customer

**Q9.**

**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>Q9</title>
```



```
<link rel="stylesheet" href="Q9.css">
<script src="Q9.js"></script>
</head>
<body>
  <div class="start" id="start">
    <p class="squiz">QUIZ</p>
    <hr>
    <ul><h2>Rules</h2>
      <li>The quiz is of the type <b>MCQ</b></li>
      <li>Every question has only <b>ONE</b> correct answer</li>
      <li>You cannot go back to the previous question</li>
      <li>You have <b>30</b> seconds for each question</li>
      <li>Number of questions are <b>5</b></li>
    </ul>
    <button class="button" onclick="start();">START</button>
  </div>
  <div class="box" id="box">
    <span class="before">Time left: <span id="countdown"></span></span>
    <p id="ques"></p>
    <span>a.</span><input type="radio" id="a" name="quiz"
value="a"><span>
    <label for="a" id="la"></label></span><br>
    <span>b.</span><input type="radio" id="b" name="quiz"
value="b"><span>
    <label for="b" id="lb"></label></span><br>
    <span>c.</span><input type="radio" id="c" name="quiz"
value="c"><span>
```

```
<label for="c" id="lc"></label></span><br>
<span>d.</span><input type="radio" id="d" name="quiz"
value="d"><span>
<label for="d" id="ld"></label></span><br><br>
<button class="button" id="next" style="margin-left: 80%;"
onclick="button_click();">Next</button>
</div>
</body>
</html>
```

## CSS

```
body{
    padding: 5px;
}
span{
    height: 10px;
    width: auto;
    display: inline-block;
    margin: 5px;
    font-size: 18px;
}
.box{
    border: solid rgb(172, 172, 172) 2px;
    background-color: rgb(221, 221, 221);
    margin: 100px auto;
    width: 50%;
    height: auto;
    padding: 30px;
```

```
    box-shadow: 0 12px 10px 0 rgba(0,0,0,0.24), 0 17px 25px 0 rgba(0,0,0,0.19);
    display: none;
}

.start{
    border: solid rgb(172, 172, 172) 2px;
    background-color: rgb(221, 221, 221);
    margin: 100px auto;
    width: 50%;
    padding: 30px;
    box-shadow: 0 12px 10px 0 rgba(0,0,0,0.24), 0 17px 25px 0 rgba(0,0,0,0.19);
}

.squiz{
    text-align: center;
    font-size: 24px;
    font-weight: bold;
}

li{
    font-size: 18px;
    margin-top: 4px;
}

.button{
    font-size: 16px;
    padding: 10px;
    width: 100px;
    background-color: rgb(155, 155, 155);
    border-radius: 20px;
```

```
border: solid 2px;
margin: 0 auto;
display: block;
}
#ques{
    font-size: 24px;
    font-weight: bold;
    margin-left: 7px;
    margin-top: 50px;
}
.before{
    position: relative;
    float: right;
    font-size: 24px;
}
#countdown{
    font-size: 24px;
    font-weight: bold;
    display: inline-block;
}
.button:hover{
    background-color: rgb(122, 122, 122);
}
.button:active{
    background-color: rgb(100, 100, 100);
}
```

```
.button:focus{  
    outline: none;  
}
```

### **JavaScript**

```
var score = 0;  
  
var i=0;  
  
var c=0;  
  
var ques = ["A figure with 3 sides is known as a?", "The smallest two-digit  
number is?", "A figure which has no sides and no corners is called?", "When any  
number is multiplied by 0, the answer is always?", "A figure with four equal  
sides is called?"];  
  
var options = [  
    ["Circle", "Square", "Triangle", "Rectangle"],  
    ["12", "9", "20", "10"],  
    ["Circle", "Triangle", "Hexagon", "Square"],  
    ["The number itself", "Zero", "Infinity", "Cannot be determined"],  
    ["Circle", "Square", "Rectangle", "Triangle"]  
];  
  
var ans = ["c", "d", "a", "b", "b"]  
  
function start(){  
    timer();  
  
    document.getElementById("start").style.display = "none";  
    document.getElementById("box").style.display = "block";  
    i=Math.floor(Math.random()*5);  
  
    document.getElementById("ques").innerHTML = ques[i];  
    document.getElementById("la").innerHTML = options[i][0];  
    document.getElementById("lb").innerHTML = options[i][1];
```

```
document.getElementById("lc").innerHTML = options[i][2];
document.getElementById("ld").innerHTML = options[i][3];
ques[i]=="done";
}
function button_click(){
    timer();
    if(c!=5)
    {
        c++;
        ques[i] = "done";
        if(document.getElementById("a").checked == true)
        {
            document.getElementById("a").checked = false;
            var x = "a";
        }
        else if(document.getElementById("b").checked == true)
        {
            document.getElementById("b").checked = false;
            var x = "b";
        }
        else if(document.getElementById("c").checked == true)
        {
            document.getElementById("c").checked = false;
            var x = "c";
        }
        else if(document.getElementById("d").checked == true)
```

```

{
    document.getElementById("d").checked = false;
    var x = "d";
}
else
    var x = "";
if(x == ans[i])
    score++;
}
while(ques[i]=="done" && c!=5)
{
    i=Math.floor(Math.random()*5);
}
if(c==4)
    document.getElementById("next").innerHTML = "End quiz";
if(c!=5)
{
    document.getElementById("ques").innerHTML = ques[i];
    document.getElementById("la").innerHTML = options[i][0];
    document.getElementById("lb").innerHTML = options[i][1];
    document.getElementById("lc").innerHTML = options[i][2];
    document.getElementById("ld").innerHTML = options[i][3];
}
else
{
    var y = document.getElementsByTagName("span");

```

```

console.log(y);
var z = document.getElementsByTagName("input");
var t = document.getElementsByTagName("label");
for(var a=0;a<y.length;a++)
{
    y[a].style.display="none";
}
for(var a=0;a<4;a++)
{
    z[a].style.display="none";
    t[a].style.display="none";

}
document.getElementById("next").style.display="none";
document.getElementById("ques").style.textAlign = "center";
document.getElementById("ques").innerHTML = "QUIZ
COMPLETE<br><br>Your score is: "+score+"/5";
}
}
var p=0;
var countdown = 0;
function timer(){
    p=29;
    clearInterval(countdown);
    countdown = setInterval(function()
    {
        document.getElementById("countdown").style.color = "black";
    }
    );
}

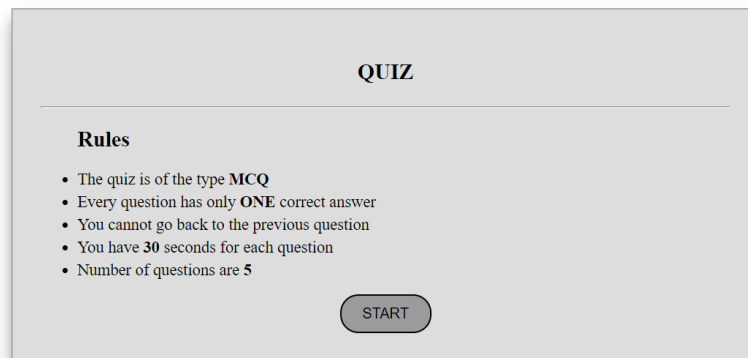
```



```
if(p<=5)
    document.getElementById("countdown").style.color = "red";
if(p<1)
{
    button_click();
}
document.getElementById("countdown").innerHTML = p;
p--;
},1000)
}
```

## Output –

### Initially



### Q1

Time left: **22**

**A figure with four equal sides is called?**

- a. ☐ Circle
- b. ☒ Square
- c. ☐ Rectangle
- d. ☐ Triangle

Next

**Q2**

Time left: **5**

**The smallest two-digit number is?**

- a. ☐ 12
- b. ☐ 9
- c. ☐ 20
- d. ☒ 10

Next

**Q3**

Time left: **16**

**A figure which has no sides and no corners is called?**

- a. ☐ Circle
- b. ☐ Triangle
- c. ☒ Hexagon
- d. ☐ Square

Next

**Q4**

Time left: **19**

**When any number is multiplied by 0, the answer is always?**

- a. ☐ The number itself
- b. ☐ Zero
- c. ☐ Infinity
- d. ☒ Cannot be determined

Next

**Q5**

Time left: **21**

**A figure with 3 sides is known as a?**

- a. ☐ Circle
- b. ☐ Square
- c. ☒ Triangle
- d. ☐ Rectangle

End quiz

**Result**

**QUIZ COMPLETE**

**Your score is: 3/5**

## Q10.

### 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>Q10</title>
<script src="Q10.js"></script>
</head>
<body style="padding: 20px;">
  <div style="border: black solid 1px; width: fit-content; padding: 10px;">
    <h1>Validate Credit Cards</h1>
    <form>
      <label for="card">Credit Card: </label>
      <select id="card" name="card">
        <option value="American Express">American Express</option>
        <option value="Diners Club">Diners Club</option>
        <option value="Discover">Discover</option>
        <option value="JCB">JCB</option>
        <option value="MasterCard">MasterCard</option>
        <option value="Visa">Visa</option>
      </select><br>
      <label for="number">Number: </label>
```

```

        <input type="text" name="number" id="number"><br><br>
        <button type="button" onclick="Validate();">Validate</button>
    </form>

    <p style="border: black solid 1px; display: none;" id="disp"></p>
</div>
</body>
</html>

```

### **JavaScript**

```

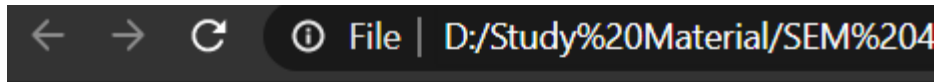
function Validate(){
    document.getElementById("disp").style.display = "block";
    var x=document.getElementById("card").value;
    var y =document.getElementById("number");
    if(x == "American Express")
        y.pattern = "[34,37]{2}\\d{13}$";
    else if(x == "Diners Club")
        y.pattern = "([300-305]{3}\\d{11}$)|([36,38]{2}\\d{12}$)";
    else if(x == "Discover")
        y.pattern = "([6011]{4}\\d{12}$)|([65]{2}\\d{14}$)";
    else if(x == "JCB")
        y.pattern = "([2131,1800]{4}\\d{11}$)|([35]{2}\\d{14}$)";
    else if(x == "MasterCard")
        y.pattern = "[51-55]{2}\\d{14}$";
    else if(x == "Visa")
        y.pattern = "([4]{1}\\d{12}$)|([4]{1}\\d{15}$)";
    if(document.getElementById("number").validity.patternMismatch)
        document.getElementById("disp").innerHTML = "Invalid Credit Card
Number";

```

```
else  
    document.getElementById("disp").innerHTML = "Valid Credit Card  
Number";  
}
```

## Output –

### Initially

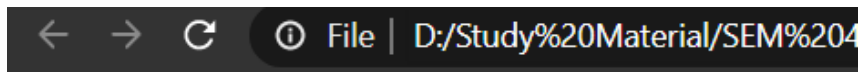


## Validate Credit Cards

Credit Card:

Number:

### American Express

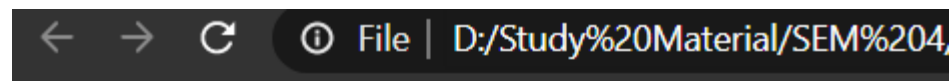


## Validate Credit Cards

Credit Card:

Number:

### Diners Club

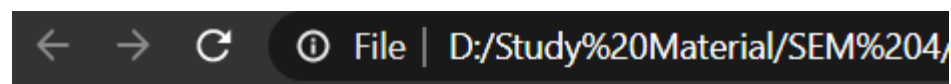


## Validate Credit Cards

Credit Card:

Number:

### Discover

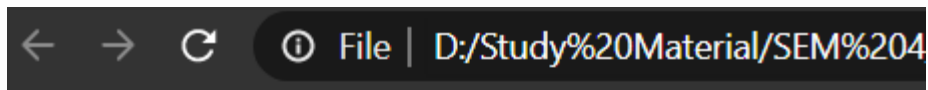


## Validate Credit Cards

Credit Card:

Number:

## JCB

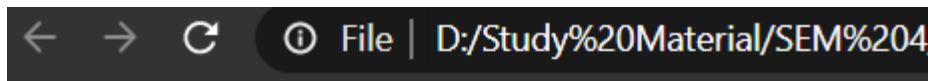


# Validate Credit Cards

Credit Card:

Number:

## MasterCard



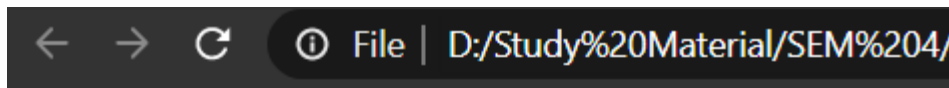
# Validate Credit Cards

Credit Card:

Number:



## Visa



# Validate Credit Cards

Credit Card:

Number:

**Q11.**

**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>Q11</title>
<script src="Q11.js"></script>
</head>
<body style="padding: 20px;">
  <form>
```

```

<label for="username">Username: </label>

<input type="text" name="username" id="username" pattern="^[A-Z]\w+(\s[A-Z]{1}\.)+$" ><br><br>

<label for="email">Email ID: </label>

<input type="email" name="email" id="email" pattern="\w+@\w+(\.[a-z]{2,})+$" ><br><br>

<label for="mobile">Mobile No: </label>

<input type="text" name="mobile" id="mobile" pattern="^[9,8,7]{1}[0-9]{9}$" ><br><br>

<label for="age">Age: </label>

<input type="number" name="age" id="age" min="18" max="60" ><br><br>

<button type="button" onclick="ValidateForm();" >Submit</button>

</form>

<p id="disp"></p>

</body>

</html>

```

### **JavaScript**

```

function ValidateForm(){
    if(document.getElementById("username").validity.patternMismatch)
    {
        document.getElementById("disp").innerHTML = "Invalid Form Data";
        alert("Username does not follow the pattern 'Username X.'");
        return false;
    }
    else if(document.getElementById("email").validity.patternMismatch)
    {
        document.getElementById("disp").innerHTML = "Invalid Form Data";
    }
}

```

```
    alert("Invalid Email Format");
    return false;
}
else if(document.getElementById("mobile").validity.patternMismatch)
{
    document.getElementById("disp").innerHTML = "Invalid Form Data";
    alert("Invalid mobile no format");
    return false;
}
else if(document.getElementById("age").validity.rangeOverflow ||
document.getElementById("age").validity.rangeUnderflow)
{
    document.getElementById("disp").innerHTML = "Invalid Form Data";
    alert("Age not between 18 and 60");
    return false;
}
else
{
    document.getElementById("disp").innerHTML = "Valid Form Data";
    return true;
}
}
```

## Outputs –

← → ↻ 🔒 File | D:/Study%20Material/SEM%204/IWP/Cyclesheet%202/Q11.html?

Username:

Email ID:

Mobile No:

Age:

← → ↻ 🔒 File | D:/Study%20Material/SEM%204/IWP/Cyclesheet%202/Q11.html?

Username:

Email ID:

Mobile No:

Age:

Invalid Form Data

This page says  
Username does not follow the pattern 'Username X.'

OK

← → ↻ 🔒 File | D:/Study%20Material/SEM%204/IWP/Cyclesheet%202/Q11.html?

Username:

Email ID:

Mobile No:

Age:

Invalid Form Data

This page says  
Invalid Email Format

OK

← → ↻ 🔒 File | D:/Study%20Material/SEM%204/IWP/Cyclesheet%202/Q11.html?

Username:

Email ID:

Mobile No:

Age:

Invalid Form Data

This page says  
Invalid mobile no format

OK

← → ↻ ⓘ File | D:/Study%20Material/SEM%204/IWP/Cyclesheet%202/Q11.html?

Username:

Email ID:

Mobile No:

Age:

Invalid Form Data

This page says  
Age not between 18 and 60

← → ↻ ⓘ File | D:/Study%20Material/SEM%204/IWP/Cyclesheet%202/Q11.html?

Username:

Email ID:

Mobile No:

Age:

Valid Form Data