



Graphic Era
HILL UNIVERSITY
University under section 2(f) of UGC Act, 1956
Bhimtal Campus

Term work
of
Full Stack Development Lab (PCS-693)

Submitted in partial fulfillment of the requirement for the VI semester of
Bachelor of Technology (Computer Science & Engineering)

By

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Under the Guidance of
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DISTRICT- NAINITAL-263132
2023-2024

CERTIFICATE

The term work of **Full Stack Development Lab (PCS-693)**, being submitted by **Anubhav Singh**, Roll no 2161086 to Graphic Era Hill University Bhimtal Campus for the award of bona fide work carried out by him. He has worked under my guidance and supervision and fulfilled the requirement for the submission of this work report.

(.....)

Ms. Senam Pandey

ACKNOWLEDGEMENT

I take immense pleasure in thanking **Ms. Senam Pandey (Assistant Professor, CS, GEHU Bhimtal Campus)** for allowing us to carry out this project work under his excellent and optimistic supervision. This has all been possible due to her novel inspiration, able guidance and useful suggestions that have helped me in developing my subject concepts as a student.

I want to extend thanks to our President “**Prof. (Dr.) Kamal Ghanshala**” for providing us all infrastructure and facilities to work in need without which this work would not be possible.

Anubhav Singh

STUDENT'S DECLARATION

I, **Anubhav Singh** hereby declare the work, which is being presented in the report, entitled **Term work of Full Stack development Lab (PCS-693)** in partial fulfillment of the requirement for the award of the degree **Bachelor of Technology (Computer Science)** in the session **2023-2024** for **semester VI**, is an authentic record of my own work carried out under the supervision of **Ms. Senam Pandey** (Assistant professor, Graphic Era Hill University, Bhimtal)

The matter embodied in this project has not been submitted by me for the award of any other degree.

Date:

.....

(Full signature of student)

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1. Write a HTML code to draw the following Figure



Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Star Pattern</title>
  <style>
    .tab{
      margin-left: 50px;
    }
    .tab, h1{
      text-align: center;
    }
  </style>
</head>
<body>
  <h1>This is a star pattern</h1>
  <div class="tab">
    <h1>*</h1>
    <h1>* * *</h1>
    <h1>* * * * *</h1>
    <h1>* * * * * * *</h1>
  </div>
</body>
</html>
```

Output:-

This is a star pattern

```
      *
    * * *
  * * * * *
* * * * * * *
```

2. Create a web page to print the following table:

List of Course-wise Subjects

Sr. No.	Course	Subject	Marks		Category		Practical/ Theory
			Internal	External	Internal	External	
1	MBA	Management Accounting	30	70	-	✓	Theory
		Information Technology	30	70	-	✓	T and P
		Basics of Marketing	30	70	-	✓	Theory
		E-Commerce	50	-	✓	-	Theory
2	MCM	Visual Basic	30	70	-	✓	T and P
		Internet Technology	30	70	-	✓	T and P
		Network Technology	30	70	-	✓	Theory
		VB.Net	30	70	-	✓	T and P
		Linux	30	70	-	✓	T and P
		ISA	50	-	✓	-	Theory

Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Time Table</title>
```



```

<style>
  table{
    width: 50%;
    margin: auto;
  }
  td{
    text-align: center;
  }
  caption{
    margin-bottom: 50px;
    font-size: 30px;
  }
</style>
</head>

<body>

  <table border="2" >
    <caption>List of Course-wise Subjects</caption>
    <tr>
      <td rowspan="2">SrNo.</td>
      <td rowspan="2">Course</td>
      <td rowspan="2">Subject</td>
      <td colspan="2">Marks</td>
      <td colspan="2">Category</td>
      <td rowspan="2">Practical/Theory</td>
    </tr>
    <tr>
      <td>Internal</td>
      <td>External</td>
      <td>Internal</td>
      <td>External</td>
    </tr>
    <tr>
      <td rowspan="4">1.</td>
      <td rowspan="4">MBA</td>
      <td>Management Accounting</td>
      <td>30</td>
      <td>70</td>
      <td>-</td>
      <td></td>
      <td>Theory</td>
    </tr>
    <tr>
      <td>Information Technology</td>

```

```

        <td>30</td>
        <td>70</td>
        <td>-</td>
        <td></td>
        <td>T and P</td>
    </tr>
    <tr>
        <td>Basics of Marketing</td>
        <td>30</td>
        <td>70</td>
        <td>-</td>
        <td></td>
        <td>Theory</td>
    </tr>
    <tr>
        <td>E-Commerce</td>
        <td>50</td>
        <td>-</td>
        <td></td>
        <td>-</td>
        <td>Theory</td>
    </tr>
    <tr>
        <td rowspan="6">2.</td>
        <td rowspan="6">MCA</td>
        <td>Visual Basic</td>
        <td>30</td>
        <td>70</td>
        <td>-</td>
        <td></td>
        <td>T and P</td>
    </tr>
    <tr>
        <td>Internet Technology</td>
        <td>30</td>
        <td>70</td>
        <td>-</td>
        <td></td>
        <td>T and P</td>
    </tr>
    <tr>
        <td>Network Technology</td>
        <td>30</td>
        <td>70</td>
        <td>-</td>

```

```

        <td></td>
        <td>T and P</td>
    </tr>
    <tr>
        <td>VB.Net</td>
        <td>30</td>
        <td>70</td>
        <td>-</td>
        <td></td>
        <td>T and P</td>
    </tr>
    <tr>
        <td>Linux</td>
        <td>30</td>
        <td>70</td>
        <td>-</td>
        <td></td>
        <td>T and P</td>
    </tr>
    <tr>
        <td>ISA</td>
        <td>30</td>
        <td>70</td>
        <td></td>
        <td>-</td>
        <td>T and P</td>
    </tr>
</table>
</body>
</html>

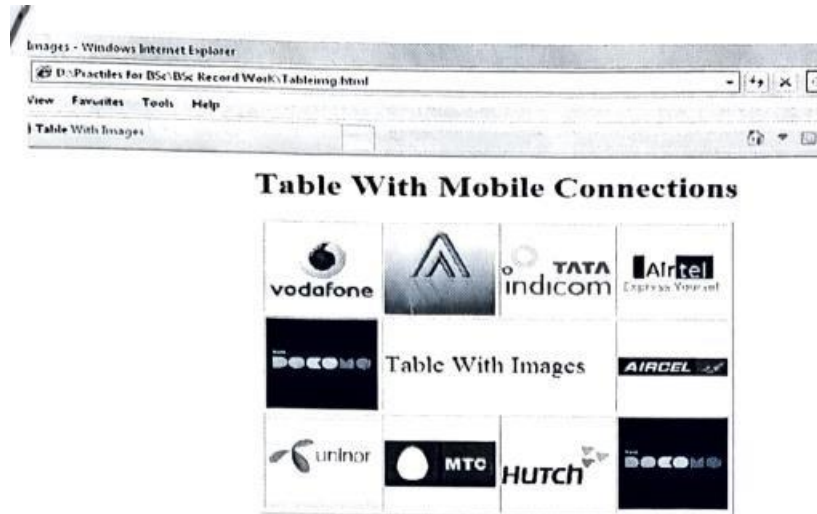
```

Output:-

List of Course-wise Subjects

SrNo.	Course	Subject	Marks		Category		Practical/Theory
			Internal	External	Internal	External	
1.	MBA	Management Accounting	30	70	-	✓	Theory
		Information Technology	30	70	-	✓	T and P
		Basics of Marketing	30	70	-	✓	Theory
		E-Commerce	50	-	✓	-	Theory
2.	MCA	Visual Basic	30	70	-	✓	T and P
		Internet Technology	30	70	-	✓	T and P
		Network Technology	30	70	-	✓	T and P
		VB.Net	30	70	-	✓	T and P
		Linux	30	70	-	✓	T and P
		ISA	30	70	✓	-	T and P

3. Using table related tags align the images with hyperlinks.



Code :-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Pictures with Links</title>
  <style>
    td{
      text-align: center;
    }
    table{
      margin: auto;
      margin-top: 120px;
    }
  </style>
</head>
<body>
  <table border="2">
    <tr>
      <td><a href="https://aircel.com/"></a></td>
      <td><a href="https://www.airtel.com/"></a></td>
      <td><a href="https://www.amazon.in/"></a></td>
```

```

        <td><a href="https://www.apple.com/in/"></a></td>
    </tr>
    <tr>
        <td><a href="https://www.nvidia.com/en-in/"></a></td>
        <td colspan="2" style="font-size: 40px;">Table with Images</td>
        <td><a href="https://www.samsung.com/in/"></a></td>
    </tr>
    <tr>
        <td><a href="https://www.dell.com/en-in"></a></td>
        <td><a href="https://www.microsoft.com/en-in"></a></td>
        <td><a href="https://www.mi.com/in/"></a></td>
        <td><a href="https://www.vodafone.com/"></a></td>
    </tr>
</table>
</body>
</html>

```

Output:-

			
	Table with Images		
			

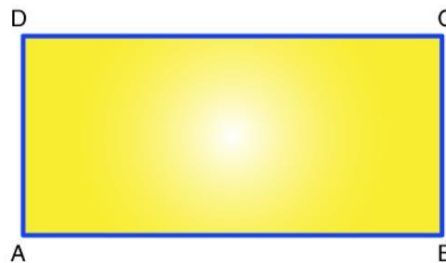
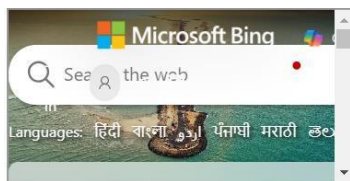
4. Create a web page with the following using HTML:

- i) To embed an image map in a web page
- ii) To fix the hot spots.
- iii) Show all the related information when the hot spots are clicked

Code :-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Area Map</title>
</head>
<body>
  <iframe href="" name="pp"></iframe>
  
  <map name="mymap">
    <area href="https://www.bing.com" shape="rect" coords="192,46,556,217"
    title="rectangle" target="pp">
  </map>
</body>
</html>
```

Output:-



© Byjus.com

5. Demonstrate the use of iframe tag using suitable example.

Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>frame</title>
</head>
<body>
<iframe name="ff" width="100%"></iframe>
<ul>
<a href="https://www.bing.com" target="ff"><li>bing</li></a>
<a href="https://www.airtel.com" target="ff"><li>Airtel</li></a>
</ul>
</body>
</html>
```

Output:-



6. Create a program to run youtube video ina web page.

Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Form</title>
</head>
<body>
<h1>Youtube Video On Web Page Using Iframe</h1>
<iframe width="560" height="315" src="https://www.youtube.com/embed/jm2r5xzYx-A?si=jADsJjX8ytmLLxI5" title="YouTube video player" frameborder="0">
```

```
allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-  
picture; web-share" allowfullscreen></iframe>  
</body>  
</html>
```

Output:-

Youtube Video On Web Page Using Iframe



7. Write a HTML code for the following snapshot.

Basic Information

Full name:

Birth date:

Gender: ☒ Male ☐ Female

Address:

Phone number:

Extra Information

Interests: ☐ Books ☐ Movies ☐ Videogames

Favorite color:

Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Form</title>
</head>
<body>
  <div class="box">
    <h1>Basic Information</h1>
    <form>
      <label for="">Full Name:</label>
      <input type="text">
      <br><br>
      <label for="">Birth Date</label>
      <input type="text">
      <br><br>
      <label>Gender:</label>
      <input type="radio">
      <label>Male</label>
      <input type="radio">
      <label>Female</label>
      <br><br>
      <label>Address:</label>
      <input type="text">
      <br><br>
      <label>Phone Number:</label>
      <input type="tel">
    </form>
    <h1>Extra Information</h1>
    <form>
      <label>Interests:</label>
      <input type="checkbox">
      <label>Books</label>
      <input type="checkbox">
      <label>Movies</label>
      <input type="checkbox">
      <label>VideoGames</label>
      <br><br>
      <label>Favorite Color:</label>
      <input type="color">
    </form>
```

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

Output:-

Basic Information

Full Name:

Birth Date

Gender: ☐ Male ☐ Female

Address:

Phone Number:

Extra Information

Interests: ☐ Books ☐ Movies ☐ VideoGames

Favorite Color:

8. Create a web page to show all hyperlinks with following specification:

- i) Default color is pink.
- ii) Active color is blue
- iii) Visited color is Green
- iv) Hyperlink should be without underline.

Code:-

```
<!DOCTYPE html>

<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Link</title>
  <style>
    #linking {
      text-decoration: none;
      color: pink;
    }
    #linking:link {
      color: #FF0000;
    }
    #linking:visited {
```

```

        color: #00FF00;
    }
    #linking:active {
        color: #0000FF;
    }
</style>
</head>
<body>
    <h1>Pseudo Classes Property</h1>
    <a href="www.google.com" id="linking">
        <h1>Google</h1>
    </a>
</body>
</html>

```

Output:-

Pseudo Classes Property

Google

9. Create Box Shadow and text Shadow using CSS3.

Code:-

```

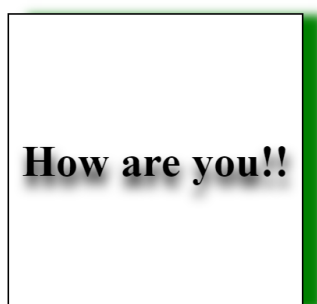
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Box Shadow</title>
    <link href="styles.css" rel="stylesheet">
    <style>
        .container{
            border: 2px solid black;
            height: 300px;
            width: 300px;
            position: relative;
            left: 100px;
            display: flex;
            justify-content: center;

```

```
align-items: center;
font-size: 45px;
box-shadow: 2px 2px 10px red;
}
.container1{
border: 2px solid black;
height: 300px;
top:-300px;
text-shadow: 2px 10px 12px;
display: flex;
justify-content: center;
align-items: center;
font-size: 45px;
position: relative;
left:600px;
width: 300px;
box-shadow: 20px 2px 10px green;
}
</style>
</head>
<body>
<h1>Box Shadow Experiment</h1>
<div class="container">
<h4>Hello people</h4>
</div>
<div class="container1">
<h4>How are you!!</h4>
</div>
</body>
</html>
```

Output:-

Box Shadow Experiment



10. Create Rounded Corners using css3.

Code:-

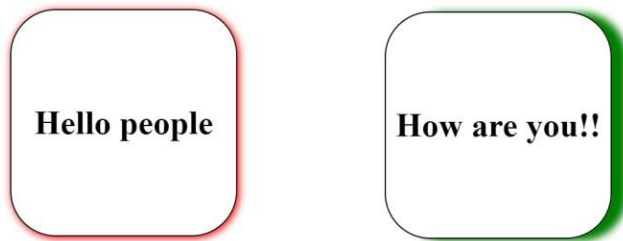
```
<!DOCTYPE html>

<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Border Curves</title>
  <link href="styles.css" rel="stylesheet">
  <style>
    .container {
      border: 2px solid black;
      height: 300px;
      width: 300px;
      position: relative;
      left: 100px;
      border-radius: 20%;
      display: flex;
      justify-content: center;
      align-items: center;
      font-size: 45px;
      box-shadow: 2px 2px 10px red;
    }
    .container1 {
      border: 2px solid black;
      height: 300px;
      top: -300px;
      display: flex;
      border-radius: 20%;
      justify-content: center;
      align-items: center;
      font-size: 45px;
      position: relative;
      left: 600px;
      width: 300px;
      box-shadow: 20px 2px 10px green;
    }
  </style>
```

```
</head>
<body>
  <h1>Border Radius Experiment</h1>
  <div class="container">
    <h4>Hello people</h4>
  </div>
  <div class="container1">
    <h4>How are you!!</h4>
  </div>
</body>
</html>
```

Output:-

Border Radius Experiment



11. Create a web page to show newspaper layout effects on contents given in web page (i.e. n multiple columns).

Code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Newspaper</title>
  <link href="styles.css" rel="stylesheet">
  <style>
    .navbar{
      height:120px;
      display: flex;
      justify-content: center;
      align-items: center;
      margin-left: 200px;
      margin-right: 200px;
```

```
    font-size: 40px;
    border: none;
}
.or{
    height: 0;
}
hr{
    margin-left: 200px;
    margin-right: 200px;
    height: 5px;
    bottom: 10px;
    background-color: black;
    border: 2px solid black;
    position: relative;
    top: 0;
}
.container{
    height: 1000px;
    margin-left: 200px;
    margin-right: 200px;
}
.container h1{
    font-size: 70px;
    padding-left: 20px;
}
.container h3{
    position: relative;
    left: 850px;
    top: -120px;
    font-size: 30px;
    width: 5px;
}
.container img{
    position: relative;
    left: 20px;
    top: -138px;
}
.sub-container{
    width: 150px;
    height: 500px;
    position: relative;
```

```

    left:50px;
    top:-115px;
}
.sub-container1{
    width:150px;
    height:500px;
    position: relative;
    left:230px;
    top:-619px;
}
.sub-container2{
    width:150px;
    height:500px;
    position: relative;
    left:400px;
    top:-1120px;
}
.sub-container3{
    width:150px;
    height:500px;
    position: relative;
    left:600px;
    top:-1620px;
}
.sub-container4{
    width:150px;
    height:500px;
    position: relative;
    left:850px;
    top:-2455px;
}
</style>
</head>
<body>
    <hr class="or">
    <hr>
    <nav class="navbar">
        <h1>THE DAILY NEWS</h1>
    </nav>
    <hr class="or">
    <hr>

```



```

<div class="container">
  <h1>WORLD NEWS TODAY</h1>
  <h3>Economic News</h3>
  
  <div class="sub-container">
    Lorem ipsum dolor, sit amet consectetur adipisicing elit. Amet, corrupti similique illum
    sit error impedit rem magni nulla vero deserunt doloribus quidem ut, ea perspiciatis in! Eius.
  </div>
  <div class="sub-container1">
    Lorem ipsum dolor sit amet consectetur adipisicing elit. Tempore repellendus enim
    earum distinctio tempora iure, eveniet deserunt cupiditate eaque eius, labore placeat libero nihil!.
  </div>
  <div class="sub-container2">
    Lorem ipsum dolor sit amet consectetur adipisicing elit. Animi exercitationem
    necessitatibus officia maxime sint reprehenderit voluptatem magnam ad excepturi asperiores
    itaque illo molestias delectus.
  </div>
  <div class="sub-container3">
    Lorem ipsum dolor sit amet consectetur adipisicing elit. Animi exercitationem
    necessitatibus officia maxime sint reprehenderit voluptatem magnam ad excepturi asperiores.
  </div>
  <div class="sub-container4">
    Lorem ipsum dolor sit amet consectetur adipisicing elit. Facere, quidem quia maiores
    obcaecati placeat ab unde nulla provident error? Voluptatibus accusantium illo repudiandae
    optio.
  </div>
</div>
</body>
</html>

```

Output:-

WORLD NEWS TODAY

Economic
News

Lorem ipsum dolor, sit
amet consectetur
adipiscing elit. Aenean,
commodo nuncque
aliam sit error imper
tor magna nulla vero
deserunt dolores
quidem ut, es
peripetiam! Et Erat,
suisque regimini
assensum perferenda
illis, non tamen
molentia, autem
notorum dolor
preparandis veniam!
Ipsum quo nulla
quidem quoniam,
namque. Et
difficilis alias et
obtusis voluptatem ab
reuerenda
etiam rationem
cuiusque tamen
deserunt. Et Aeneas
ut unde iure minima
dolorumque autem
accusamus. Fugit unde
non quia, Iste vero
optio.

Luxem quoniam dolere sit
 amem concupiscere
 aditigiscit
 aditigere repellendus
 amem eorum distinctio
 tempora hinc, evanescit
 deserunt cupiditate
 aequae enim, labore
 placeat libere nihil!
 Quam tempora tenetur
 dignumque transire
 quae enim corrupti
 praesentem magni?
 Quis, a non fasti
 tempora deaque necesse
 unde perferenda vint,
 amem fasti
 recandens officium
 repellat corporis, qui
 qui corrupti sequi iure
 capientes maiores
 minuit? Optio velint,
 tempora sunt
 doloremque delectus
 quatuor rem
 distinctio sine impedit
 quae sunt quam dolore
 amemque modum
 veniant totum.

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 sunt consectetur
 adipiscing elit. Aenean
 etiam orci. Sed
 necesse est officia
 maxime sint
 reprehendit
 voluptatem magnam
 ad exceptum aperiores
 magis ille molestias
 faceret, dicta unde
 doloris repudiandis eos
 odit solis sunt
 praestantem quam
 minima. Tempore
 cumque auctoritatem
 nam debitis nostrum
 voluptas reprehendit
 laborum eos dolenti ad
 hic ac. Molestias dolores
 solis, amantem porro
 explicando nisi Opto
 velit, tempora sunt
 doloresque delectus
 quiquam rem
 distincto nec impedit
 que aut quam doloris
 suntquam modum
 veniam totum.

Lorem ipsum dolor sit
 amet consectetur
 adipiscing elit. Aenean
 neceratibus
 neceratibus officia
 namque sunt
 reprehenderit
 voluptatem magnam
 ad exceptum aperiente
 inque illis molestias
 delectis, dicta unde
 facta repudianda eor
 odit nulli autem
 praesentium quam
 minimal Tempora
 similis accumsan
 nam delectis acro
 voluptas reprehenderit
 laborum eor delectat
 hac ac. Namque dolor
 nulla, inveniens porro
 explicatibus nisi Opus
 velit, tempora sunt
 doloremque delectat
 quinquam rem
 distincto nam aperite
 quae aut quam dolor
 insequam, modi
 veniam totam.

periphrasti
efficiat volu
Quam iure v
eius volu
repellit per
cupidine v
similique m
adipisci du
deservit off
Perferenda
voluptatem
optio ab con
quae asper
sapiente sin
necessitate
dolorem at
esse cruciatu
emissio, ac
incidunt ex
labore duci
cupidine v
sunt delect
totum sunt,
erret? Cuius
reprobanda
dolorem do
atque impo
accusamus
consequam

semine as
 quibus
 corruptis
 struxit quia
 exanimis
 ei
 agni
 amas
 licia fuga
 vixitque
 accusanda
 modo
 ator quasi
 inique
 te natus
 atque
 am, ille
 met vel
 cum culpa
 mea
 obsequia
 tui unde
 repellat
 agni
 o edit
 lectus
 fit aliquan
 tempore
 neque ille

12. Create a web page to show fixed background image (this image will not scroll with the rest of the page).

Code:-

[illegible]

```

<p>The background-image is fixed.</p>
<p>The background-image is fixed.</p>
<p>The background-image is fixed.</p>
<p>The background-image is fixed.</p>
<p>The background-image is fixed.</p>
<p>The background-image is fixed.</p>
<p>The background-image is fixed.</p>
<p>The background-image is fixed.</p>
<p>The background-image is fixed.</p>
<p>The background-image is fixed.</p>
<p>The background-image is fixed.</p>
</body>
</html>

```

Output:-



The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.
 The background-image is fixed.

13. Create a web page to position a background image and repeat the image horizontally or vertically.

Code:-

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Background Image</title>
  <style>
    body{

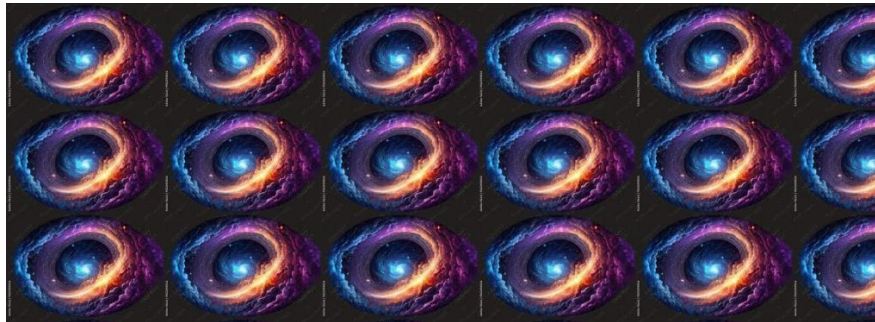
```

```

        background-image: url(beau.jpg);
    }
</style>
</head>
<body>
</body>
</html>

```

Output:-



14. Design a web page to validate credit card number according to the below specification. Following tables outlines the major credit cards you might want to validate, along with their allowed prefixes and lengths.

Major Credit Cards, Their Prefixes, and Length

Card Type	Prefixes	Length
Master Card	51-55	16
Visa	4	13,16
American Express	34,37	15

Code:-

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Credit Card Validation</title>
    <link href="styles.css" rel="stylesheet">

```

```
<style>
.container {
  border: 2px solid black;
  height: 600px;
  font-family: monospace;
  font-size: 25px;
}
.container h1 {
  text-align: center;
}
#lb {
  position: relative;
  left: 200px;
}
#inputing {
  height: 40px;
  width: 350px;
  position: relative;
  top: 50px;
}
.container #second1 {
  position: relative;
  left: 200px;
  top: 50px;
}
.container label {
  margin-left: 20px;
}
#cards1 {
  height: 50px;
  width: 400px;
  position: relative;
  left: 220px;
}
.container input {
  position: relative;
  left: 200px;
}
.container .btn {
  position: relative;
  top: 200px;
  height: 30px;
  width: 120px;
  background-color: green;
  color: white;
  font-size: 20px;
}
```

```

        cursor: pointer;
    }
</style>
</head>
<body>
<div class="container">
    <h1><u>Card Validation</u></h1>
    <label for="cards" id="lb">Enter Card:</label>
    <select id="cards1">
        <option value="Select" name="select">select</option>
        <option value="mastercard" name="master">mastercard</option>
        <option value="visa" name="vi">Visa</option>
        <option value="americanexpress" name="amex">American Express</option>
    </select>
    <br>
    <label id="second1">Enter Card Number:</label>
    <input type="text" id="inputing" name="crdnum" placeholder="Enter Card Number">
    <button class="btn" onclick="check()">Submit</button>
</div>
<script>function check() {
    let dp = document.getElementById("cards1")
    let op = dp.options[dp.selectedIndex];
    if (op.value === "Select") {
        alert("Please select some card");
    }
    else if (op.value === "mastercard") {
        let a = "";
        let inp = document.getElementById("inputing")
        if (inp.value.length > 16) {
            alert("Length of card is exceeded");
        }
        if (inp.value == "") {
            alert("Please enter card Number");
        }
        for (i = 0; i <= 1; i++) {
            a += inp.value.charAt(i);
        }
        console.log(a);
        if ((a.startsWith(51) || a.startsWith(52) || a.startsWith(53) || a.startsWith(54) ||
a.startsWith(54)) && inp.value.length == 16) {
            alert("All good");
        }
    }
    else if (op.value === "visa") {
        let inp = document.getElementById("inputing")
        if (inp.value.length > 16) {

```

```

        alert("Length of card is exceeded");
    }
    if (inp.value == "") {
        alert("Please enter card Number");
    }
    if ((inp.value.length == 13 || inp.value.length == 16) && inp.value.charAt(0) == '4') {
        alert("All Good");
    }
    else {
        alert("Invalid Card Number");
    }
}
else if (op.value === "americanexpress") {
    let inp = document.getElementById("inputing")
    if (inp.value.length > 15) {
        alert("Length of card is exceeded");
    }
    if (inp.value == "") {
        alert("Please enter card Number");
    }
    if (inp.value.length == 15 && ((inp.value.charAt(0) == '3' && inp.value.charAt(1) ==
'4') || (inp.value.charAt(0) == '3' && inp.value.charAt(1) == '7'))) {
        alert("All Good");
    }
    else {
        alert("Invalid Card Number");
    }
}
}
</script>
</body>
</html>

```

Output:-

Card Validation

Enter Card:

Enter Card Number:

15. Create a crud application using php.

Code:-

App.js

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>CRUD Application</title>
  <link href="styles.css" rel="stylesheet">
</head>
<body>
  <div class="nav">
    <a href="app.php"><li>Home</li></a>
    <a href="edit.php"><li>Edit</li></a>
    <a href="delete.php"><li>Delete</li></a>
    <a href="app.php"><li>About</li></a>
  </div>
  <div class="but">
    <a href="edit.php"><button class="edit2">Add</button></a>
    <a href="delete.php?delall="><button class="edit2" name="deleall">Delete All</button></a>
  </div>

  <table class="studinfo1" border="2">
    <tr>
      <td>Name</td>
      <td>Id</td>
      <td>Course</td>
      <td>Section</td>
      <td>Edit</td>
      <td>Delete</td>
    </tr>
  <?php
    include "config.php";
    $sql="SELECT * FROM `studinfo`";
    $res=mysqli_query($con,$sql);
    if(mysqli_num_rows($res)>0){
      while($row=mysqli_fetch_assoc($res)){
        echo "<tr>";
        echo "<td>" . $row["SName"] . "</td>";
```



```

        echo "<td>" . $row["Id"] . "</td>";
        echo "<td>" . $row["Course"] . "</td>";
        echo "<td>" . $row["Section"] . "</td>";
        echo "<td>". "<a href='update.php?upid=".$row["Id"]."'><button class='edit'
name='ed'>Edit</button></a>" . "</td>";
        echo "<td>". "<a href='delete.php?delid=".$row["Id"]."'><button class='delete'
name='del'>Delete</button></a>" . "</td>";
        echo "</tr>";
    }
}
?>
</table>
</body>
</html>

```

Config.php

```

<?php
$con=mysqli_connect("localhost","root","gautam","classwork") or die("Connection is not made");
?>

```

Delete.php

```

<?php
include "config.php";
if(isset($_GET['delall'])){
    $sql="DELETE FROM `studinfo`";
    $res=mysqli_query($con,$sql);
    if($res){
        header('location:app.php');
    }
}
?>
<?php
include "config.php";
if(isset($_GET['delid'])){
    $id=$_GET['delid'];
    $sql="DELETE FROM `studinfo` WHERE ID=$id";
    $res=mysqli_query($con,$sql);
    if($res){
        header('location:app.php');
    }
    else{
        die(mysqli_error($con));
    }
}

```

```

    }
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Delete</title>
</head>
<body>

</body>
</html>
Edit.php

```

```

<?php
include "config.php";
if(isset($_POST['submit'])){
    $name=$_POST['sname'];
    $id=$_POST['sid'];
    $course=$_POST['scourse'];
    $sec=$_POST['ssec'];
    $sql2="SELECT * FROM `studinfo`";
    $res=mysqli_query($con,$sql2);
    $t=0;
    if(mysqli_num_rows($res)!=0){
        $sql1="SELECT Id FROM `studinfo` WHERE Id='".$_POST['sid']."'";
        $res1=mysqli_query($con,$sql1);
        if($res1){
            if(mysqli_num_rows($res1)>0){
                $fetch=mysqli_fetch_assoc($res1);
                if($fetch['Id']==$_POST['sid']){
                    $t++;
                    echo "<script>alert('The entered id already exists');</script>";
                }
            }
        }
    }
    if($t==0){
        $sql="INSERT INTO `studinfo` (SName,Id,Course,Section) values('$name','$id','$course','$sec')";
        $res=mysqli_query($con,$sql);
        echo "<p class='dinsert'>Data Inserted Succesfully</p>";
    }
}

```

```

        header('location:app.php');
    }
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Edit</title>
    <link href="styles.css" rel="stylesheet">
</head>
<body>
    <h1 class="edit1">Edit your Data</h1>
    <form action="edit.php" method="post" class="editing">
        <input type="text" name="sname" placeholder="Enter your name" class="boxes" required>
        <br><br>
        <input type="number" name="sid" placeholder="Enter your id" class="boxes" required>
        <br><br>
        <input type="text" name="scourse" placeholder="Enter your course" class="boxes" required>
        <br><br>
        <input type="section" name="ssec" placeholder="Enter your section" class="boxes" required>
        <br><br>
        <button name="submit" class="sub">Save</button>
    </form>
    <a href="app.php"><button class="sub1">back</button></a>
</body>
</html>

```

Update.php

```

<?php
    include "config.php";
    if(isset($_GET['upid'])){
        $sql="SELECT * FROM `studinfo` WHERE Id=$_GET[upid]";
        $res=mysqli_query($con,$sql);
        $row=mysqli_fetch_assoc($res);
        $name=$row['SName'];
        $id=$row['Id'];
        $course=$row['Course'];
        $sec=$row['Section'];
    }
    if(isset($_POST['submit'])){

```

```

$name=$_POST['sname'];
$id1=$_POST['sid'];
$course=$_POST['scourse'];
$sec=$_POST['ssec'];
$sql="UPDATE `studinfo` SET SName='$name',Id=$id1,Course='$course',Section='$sec' WHERE
Id=$id1";
$res=mysqli_query($con,$sql);
if($res){
    header('location:app.php');
}
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Edit</title>
    <link href="styles.css" rel="stylesheet">
</head>
<body>
    <h1 class="edit1">Edit your Data</h1>
    <form action="update.php" method="post" class="editing">
        <input type="text" name="sname" placeholder="Enter your name" class="boxes" value="<?php
echo $name; ?>" required>
        <br><br>
        <input type="number" name="sid" placeholder="Enter your id" class="boxes" value="<?php echo
$id; ?>" required>
        <br><br>
        <input type="text" name="scourse" placeholder="Enter your course" class="boxes" value="<?php
echo $course; ?>" required>
        <br><br>
        <input type="section" name="ssec" placeholder="Enter your section" class="boxes" value="<?php
echo $sec; ?>" required>
        <br><br>
        <button name="submit" class="sub">Save</button>
    </form>
    <a href="app.php"><button class="sub1">back</button></a>
</body>
</html>

```

Output:-

Add

Delete All

Name	Id	Course	Section	Edit	Delete
Gautam	1	B.Tech	A	Edit	Delete

16. Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.

Code:-

```
<?php
    session_start();
    if(isset($_SESSION['count'])){
        $_SESSION['count']+=1;
    }
    echo $_SESSION['count'];
?>
```

17. Create a Login form having User-Id and Password fields. After submitting the form match the user-id and password with existing user-id and password. If user-id and password match a new welcome window should be appear.

Code:

Login.php

```
<?php
    session_start();
    $userid="GautamGupta123";
    $password="1234";
    if(isset($_POST['bt'])){
        if($_POST['userid']==$userid && $_POST['pass']==$password){
            $_SESSION['userid']=$userid;
            header('location:welcome.php');
        }
    }
```

```

    }
?>
<!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 action="
    " method="post">
        <input type="text" name="userid1">
        <input type="password" name="pass">
        <input type="submit" value="Submit" name="bt">
    </form>
</body>
</html>

```

Welcome.php

```

<?php
    session_start();
    $name=$_SESSION['userid'];
?>
<!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>
<?php
    echo "Welcome $name";
?>
</body>
</html>

```

- 18. Create a PHP page to display all the records from PERS table that contain Department Number(field name dno) similar to that of given in list lstdnogiven in interface web browser Screen.**

Code:-

```

<?php
include "config1.php";
$lstdnogiven = [101, 102, 103];
$dno_list = implode(",", array_map('intval', $lstdnogiven));
$sql = "SELECT * FROM `employee` WHERE Eid IN ($dno_list)";
$res = mysqli_query($con, $sql);
if (mysqli_num_rows($res) > 0) {
    echo "<table border='2'>";
    echo "<tr><th>Eid</th><th>ENAME</th><th>Department_Name</th></tr>";
    while ($row = mysqli_fetch_assoc($res)) {
        echo "<tr>";
        echo "<td>" . $row['Eid'] . "</td>";
        echo "<td>" . $row['ENAME'] . "</td>";
        echo "<td>" . $row['Department'] . "</td>";
        echo "</tr>";
    }
    echo "</table>";
}

```

19. Write a PHP program to store current date-time in a COOKIE and display the "Last visited on date-time on the web page upon reopening of the same page.

Code: -

```

<?php
$cookie_name = "last_visited";
if(isset($_COOKIE[$cookie_name])) {
    $last_visited = $_COOKIE[$cookie_name];
} else {
    $last_visited = "This is your first visit.";
}
echo "Last visited on: " . $last_visited;
$current_date_time = date("Y-m-d H:i:s");
setcookie($cookie_name, $current_date_time, time() + (86400 * 30));
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Last Visit</title>
</head>
<body>
    <h1>Welcome Back!</h1>

```

```
<p>Your last visit was on: <?php echo $last_visited; ?></p>
</body>
</html>
```

20. Create a calculator program in react.js.

Code:

```
import React, { useState } from 'react';
import './styles.css';
const Calculator = () => {
  const [display, setDisplay] = useState("");
  const handleClick = (value) => {
    if (value === '=') {
      try {
        setDisplay(eval(display).toString());
      } catch {
        setDisplay('Error');
      }
    } else if (value === 'C') {
      setDisplay("");
    } else {
      setDisplay(display + value);
    }
  };

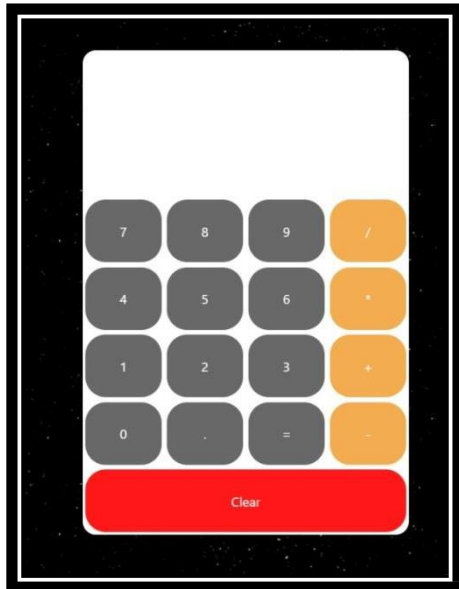
  return (
    <div className="calculator">
      <div className="display">{display}</div>
      <div className="buttons">
        {[ '7', '8', '9', '/' ].map((value) => (
          <button onClick={() => handleClick(value)} key={value}>{value}</button>
        ))}
      </div>
    </div>
  );
};
```



```

    {[ '4', '5', '6', '*' ].map((value) => (
<button onClick={() => handleClick(value)} key={value}>{value}</button>
    ))}
    {[ '1', '2', '3', '-' ].map((value) => (
<button onClick={() => handleClick(value)} key={value}>{value}</button>
    ))}
    {[ '0', '.', '=', '+' ].map((value) => (
<button onClick={() => handleClick(value)} key={value}>{value}</button>
    ))}
<button onClick={() => handleClick('C')} key="C">C</button>
</div>
</div>
);
};
export default Calculator;

```



21. Create a form using react.js

Code:-

Form.js

```
import React, { Component } from 'react'
```

```

import './Forms.css';
class forms extends Component {
  constructor(props){
    super(props)
    this.state={
      username:"",
      password:"",
      subject:'Operating System'
    }
  }
  usernamechange=(event)=>{
    this.setState({
      username:event.target.value
    })
  }
  passwordchange= event =>{
    this.setState({
      password:event.target.value
    })
  }
  changesub=event=>{
    this.setState({
      subject:event.target.value
    })
  }
  render() {
    return (
      <div>
        <h1>Form Component</h1>
        <form className='fm'>
          <label>UserName</label>
          <input type='text' value={this.state.username} onChange={this.usernamechange}/>
          <br>
          </br>
          <label>Password</label>
          <input type='password' value={this.state.password} onChange={this.passwordchange}/>
          <br>
          </br>
          <label>Subject</label>
          <select value={this.state.subject} onChange={this.changesub}>
            <option>Operating System</option>
            <option>DBMS</option>
            <option>Computer Network</option>

```

```
</select>
<br>
</br>
<input type='submit'/>
</form>
</div>

)
}
}
```

export default forms

Ouput:-

Form Component

UserName

Password

Subject

Operating System ▼

Submit