Exercise 6

Write a HTML program for numerous elements and that should be organized separately with class Selector by using cascading style sheets (CSS) for external style sheets.

Aim:

To Create an HTML page using multiple elements styled with class selectors in an external CSS file.

Procedure :

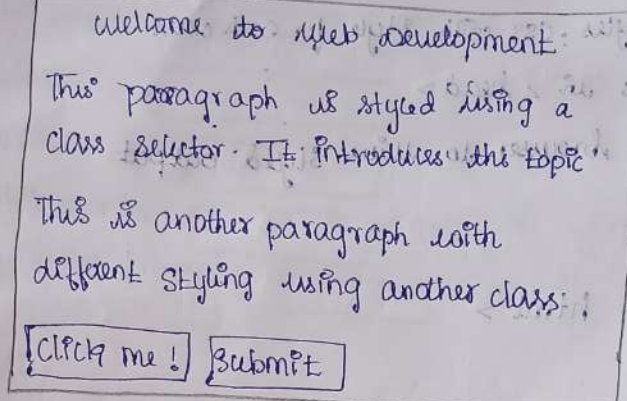
1. Create elements.html with headings, paragraphs and buttons.
2. Assign class names to each element.
3. Create styles.css with style for each class.
4. Link CSS in <head>
5. Open in browser to view styled output

program :

```
<!DOCTYPE html>
<html>
<head>
<TITLE>class selector Example </TITLE>
<link rel="stylesheet" href="Styles.css">
</head>
<body>
<h1 class="main-heading">Welcome to web development
</h1>
<p class="intro-para">This paragraph introduces
the topic.</p>
<p class="content-para">This is another styled
paragraph.</p>
<button class>="btn primary">click me!</button>
```

</body>
</html>

Output :



Result :

The code is executed successfully.

Exercise 7

Aim :

To create an HTML webpage and use float positioning in CSS to make two elements float side by side.

Procedure :

1. Create an HTML file (float-example.html) with two div elements.

2. Assign classes for styling.
3. Create style.css with float property
4. Link css in <head>
5. open in browser to view side-by-side layout.

program:

```
<!DOCTYPE HTML>
<html>
<head>
<title>Float example</title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<div class="box-left">
<h2>left box</h2>
<p>This box floats to the right.</p>
</div>
</body>
</html>
```

output

Left box

This box floats to the left side

Right box

This box floats to the right side.

Result :

The program is executed successfully.

Experiment 8

Write a java script page to find

→ Exponential value

→ limit the number of digit

→ Convert a number to string

→ Return negative infinity

Aim :

Create a JS page to

- Find exponential value
- Limit decimals
- Convert number to string
- Show negative infinity.

Procedure :

1) make number-operations.html

2) write JS in < script >

3) Show result with document.write()

4) open browser to view output

program:

```
<!DOCTYPE html>
<html>
<head>
<title> JS no operations </title>
</head>
<body>
<h1> JS no operations </h1>
<script>
var num = 1234.56789;
document.write("<h3> Exponential:
" + num.toExponential(2) + "</h3>");
document.write("<h3> to String:
" + num.toString() + "</h3>");
</script>
</body>
</html>
```

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output

Javascript number operations
Exponential value (2 digits): 1.23e+3
fixed decimal (3 places): 1234.568
Number of String: 1234.56789
Negative infinity: -Infinity

Result:

The program is executed successfully.

Experiment 9

Write a JS program to Email validation you can apply validation on the below text questions to ensure they accept answers in a specific format.

Aim:

Validate a user-entered email using JS and Regex.

Procedure:

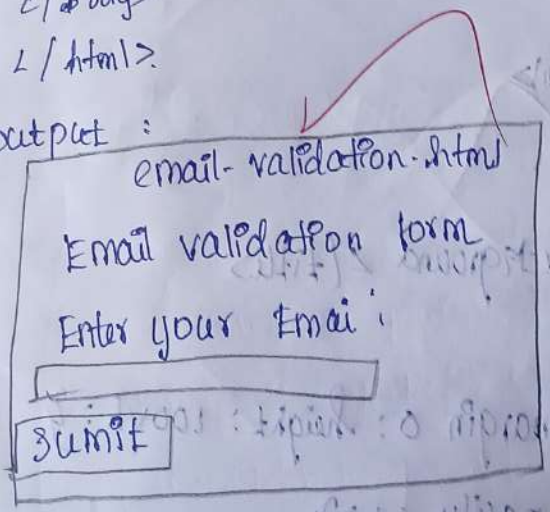
1. Create email-validation.html
2. Add form with email input and submit button.
3. Write JS function using Regex to validate email
4. Show alert for valid / invalid email

Program:

```
<!DOCTYPE html>
<html>
<body>
<title> email validation </title>
<script>
```

```
function validate email () {
var email = document.getElementById("email").
value";
var pattern = /^[^]/s@]+@[^]|s@]+[^]|s@]+
$/;
if (pattern.test(email)) alert
("valid email Address!");
return false;
}
</script>
</head>
<body>
<h2> Email validation form </h2>
<input type=" Summit "value = "submit"
</form>
</body>
</html>
```

output :



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Result :

The program is executed successfully

Experiment 10

Write an HTML program to add a background GIF to a webpage and alter its height, width, transparency and transition using CSS

Aim:

Create an HTML page with a background GIF and apply CSS for size, transparency and transition effects.

procedure:

1) Create background-gif.html
2) Add a container for the GIF
3) Apply CSS for size, transparency and transition
4. Use hover to change opacity smoothly

program:

```
<!DOCTYPE.html>
<head>
<body>
<title> GIF background </title>
<Style>
body.html { margin 0: height: 100vh; }
bg: hover { opacity :1; }
```

```
h1{colour: #fff; text-align:
center; padding-top: 40%;}
</style>
</head>
<body>
<div class="bg"><h1>Welcome;
</h1></div>
</body>
</html>
```

output:

Background.gif.html

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Result:

The program is executed successfully.

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