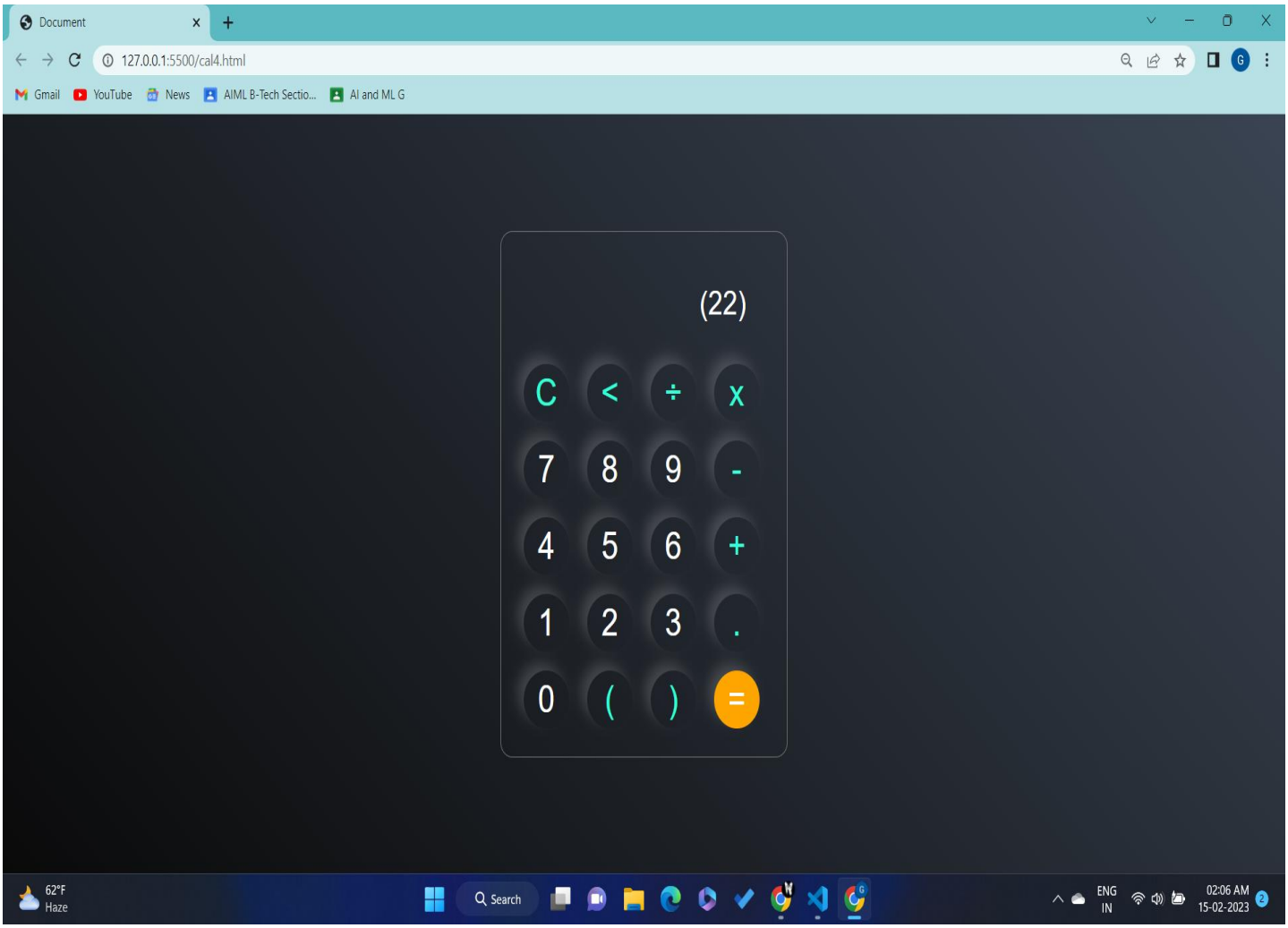
Name: Ayush Goyal
Branch & Year: CSE(A.I.ML),
First Yr.
Section: G
Practical 4

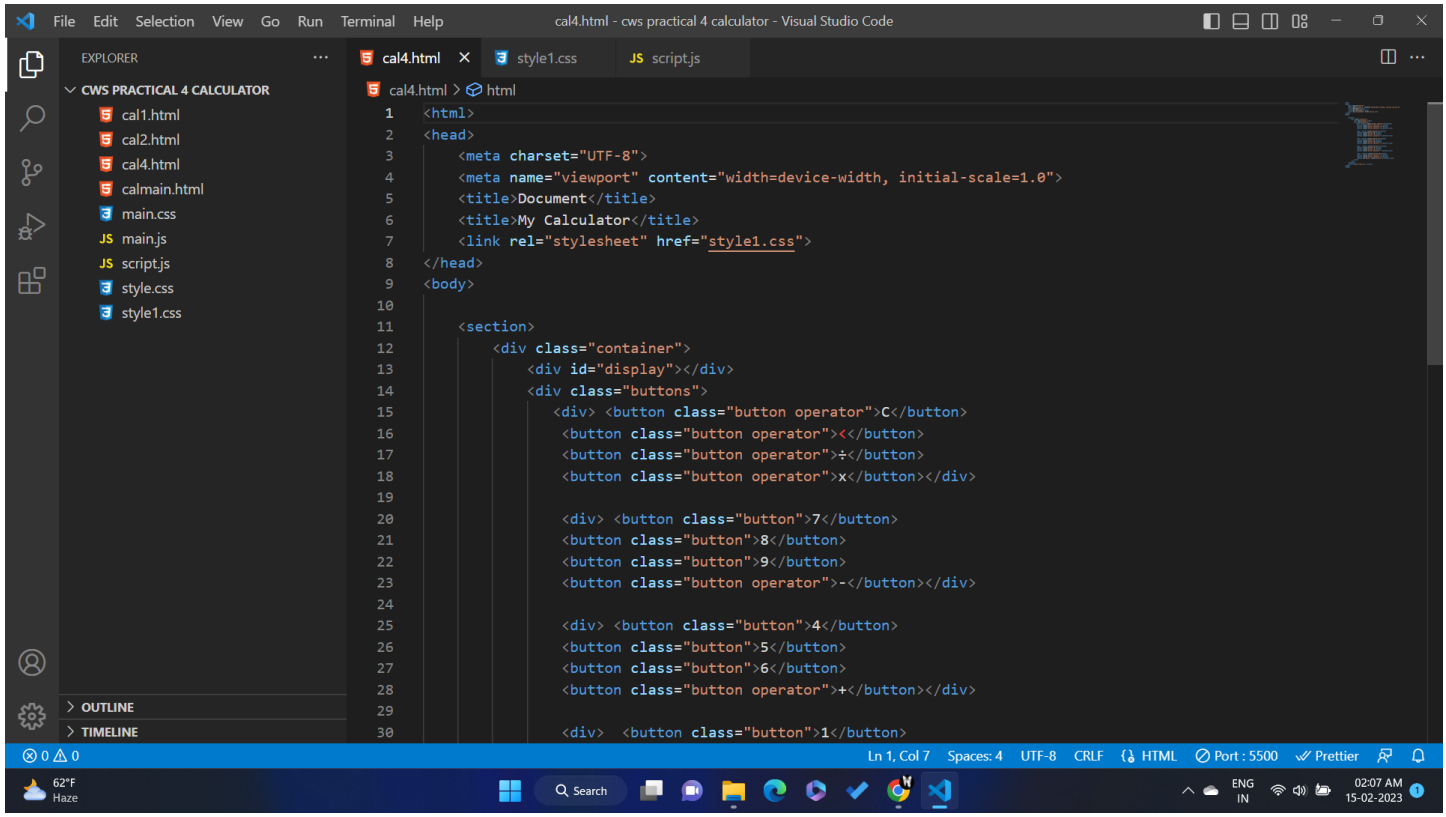
Aim: Design a calculator to perform basic mathematical operations using JavaScript. Add two buttons: Clear, +/- (to represent positive and negative numbers).

OUTPUT SS-



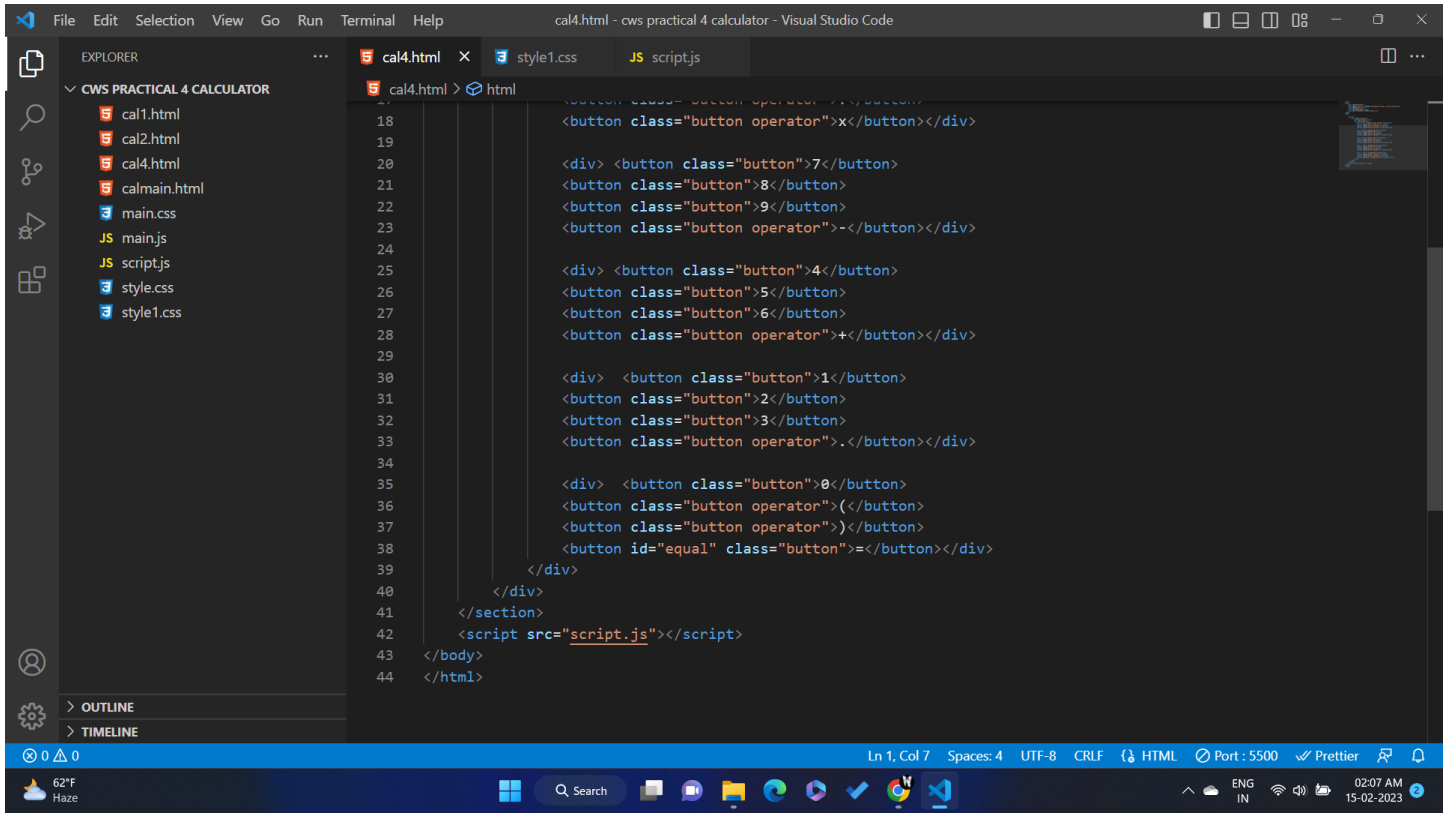
CODE SS-

1.


File Edit Selection View Go Run Terminal Help
cal4.html - cws practical 4 calculator - Visual Studio Code
EXPLORER
CWS PRACTICAL 4 CALCULATOR
cal1.html
cal2.html
cal4.html
calmain.html
main.css
main.js
script.js
style.css
style1.css
cal4.html
style1.css
script.js
cal4.html > html
<html>
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<title>My Calculator</title>
<link rel="stylesheet" href="style1.css">
</head>
<body>
<section>

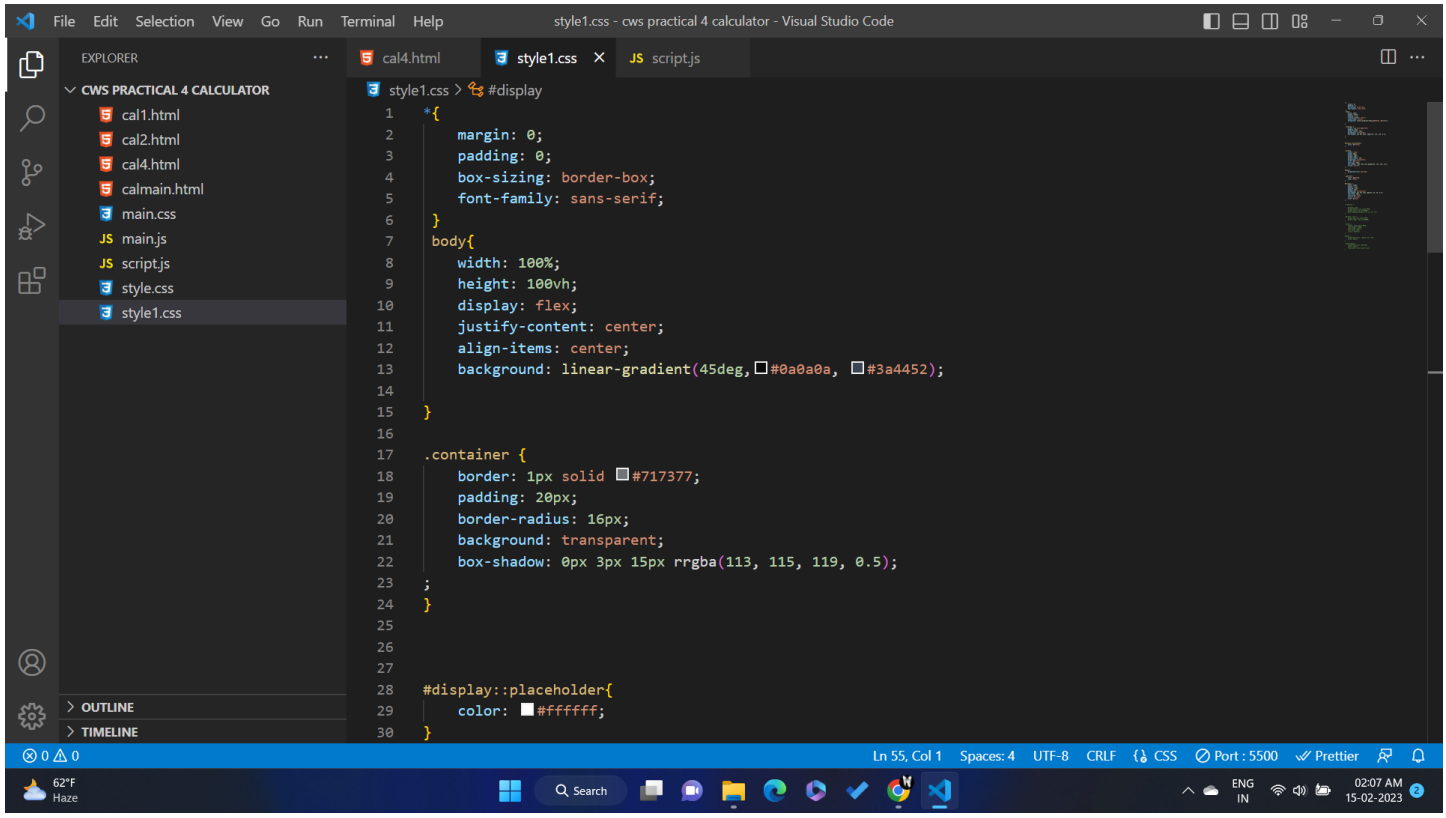
 <button class="button operator">C</button>
<button class="button operator"><</button>
<button class="button operator">÷</button>
<button class="button operator">x</button>
 <button class="button">7</button>
<button class="button">8</button>
<button class="button">9</button>
<button class="button operator">-</button>
 <button class="button">4</button>
<button class="button">5</button>
<button class="button">6</button>
<button class="button operator">+</button>
 <button class="button">1</button>
OUTLINE
TIMELINE
Ln 1, Col 7 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier
62°F Haze
Search
ENG IN
02:07 AM 15-02-2023

2.

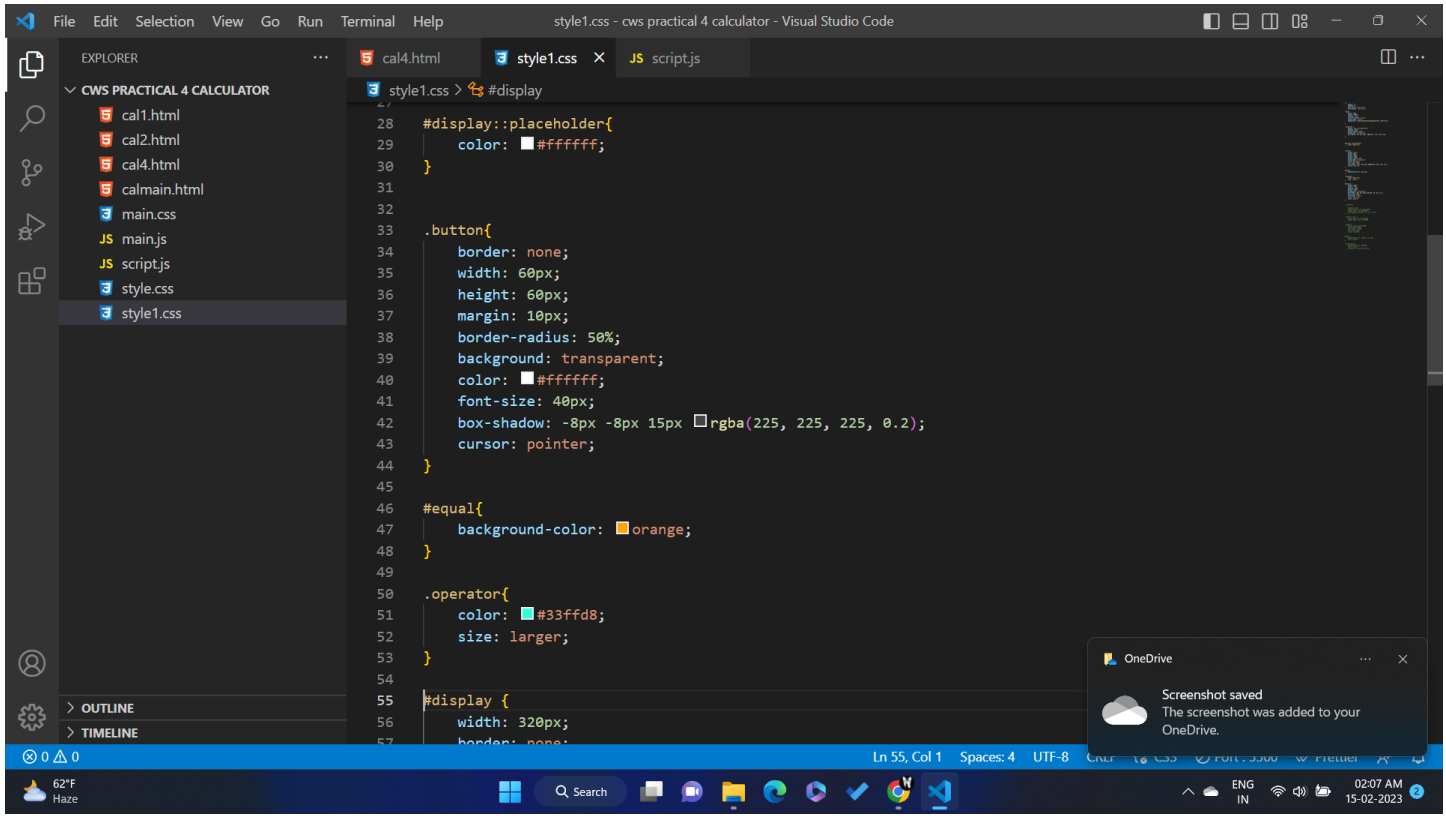

File Edit Selection View Go Run Terminal Help
cal4.html - cws practical 4 calculator - Visual Studio Code
EXPLORER
CWS PRACTICAL 4 CALCULATOR
cal1.html
cal2.html
cal4.html
calmain.html
main.css
main.js
script.js
style.css
style1.css
cal4.html
style1.css
script.js
cal4.html > html
<button class="button operator">x</button>
 <button class="button">7</button>
<button class="button">8</button>
<button class="button">9</button>
<button class="button operator">-</button>
 <button class="button">4</button>
<button class="button">5</button>
<button class="button">6</button>
<button class="button operator">+</button>
 <button class="button">1</button>
<button class="button">2</button>
<button class="button">3</button>
<button class="button operator">.</button>
 <button class="button">0</button>
<button class="button operator">(</button>
<button class="button operator">)</button>
<button id="equal" class="button">=</button>

</section>
<script src="script.js"></script>
</body>
</html>
OUTLINE
TIMELINE
Ln 1, Col 7 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier
62°F Haze
Search
ENG IN
02:07 AM 15-02-2023

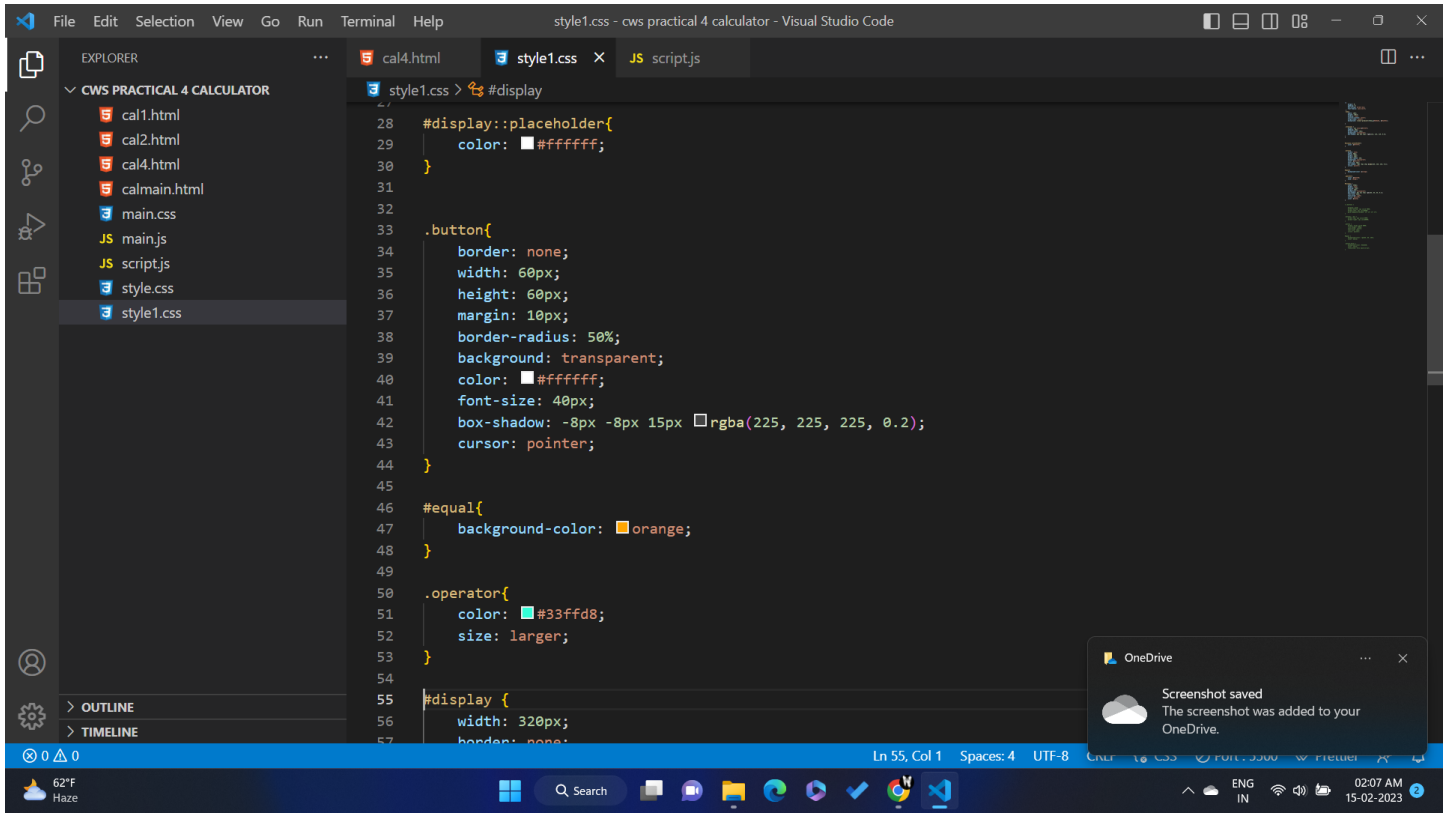
3.


File Edit Selection View Go Run Terminal Help
style1.css - cws practical 4 calculator - Visual Studio Code
EXPLORER
CWS PRACTICAL 4 CALCULATOR
cal1.html
cal2.html
cal4.html
calmain.html
main.css
main.js
script.js
style.css
style1.css
cal4.html
style1.css
script.js
style1.css > #display
*{
margin: 0;
padding: 0;
box-sizing: border-box;
font-family: sans-serif;
}
body{
width: 100%;
height: 100vh;
display: flex;
justify-content: center;
align-items: center;
background: linear-gradient(45deg, #0a0a0a, #3a4452);
}
.container {
border: 1px solid #717377;
padding: 20px;
border-radius: 16px;
background: transparent;
box-shadow: 0px 3px 15px rrgba(113, 115, 119, 0.5);
;
}
#display::placeholder{
color: #ffffff;
}
OUTLINE
TIMELINE
Ln 55, Col 1 Spaces: 4 UTF-8 CRLF CSS Port : 5500 Prettier
62°F Haze
Search
ENG IN
02:07 AM 15-02-2023

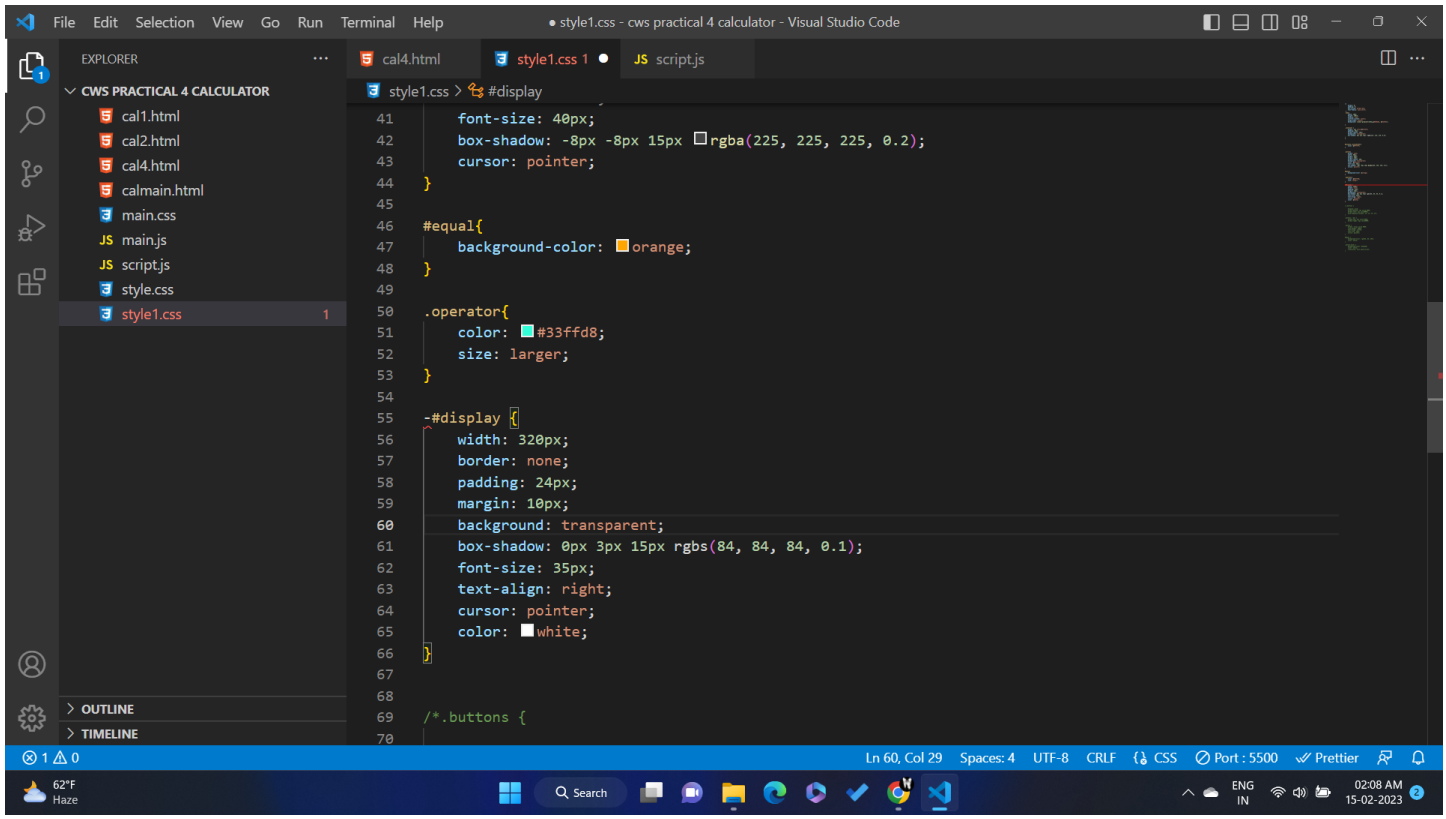
4.


File Edit Selection View Go Run Terminal Help
style1.css - cws practical 4 calculator - Visual Studio Code
EXPLORER
CWS PRACTICAL 4 CALCULATOR
cal1.html
cal2.html
cal4.html
calmain.html
main.css
main.js
script.js
style.css
style1.css
cal4.html
style1.css
script.js
style1.css > #display
#display::placeholder{
color: #ffffff;
}
.button{
border: none;
width: 60px;
height: 60px;
margin: 10px;
border-radius: 50%;
background: transparent;
color: #ffffff;
font-size: 40px;
box-shadow: -8px -8px 15px rgba(225, 225, 225, 0.2);
cursor: pointer;
}
#equal{
background-color: orange;
}
.operator{
color: #33ffd8;
size: larger;
}
#display {
width: 320px;
OneDrive
Screenshot saved
The screenshot was added to your OneDrive.
OUTLINE
TIMELINE
Ln 55, Col 1 Spaces: 4 UTF-8
62°F Haze
Search
ENG IN
02:07 AM 15-02-2023

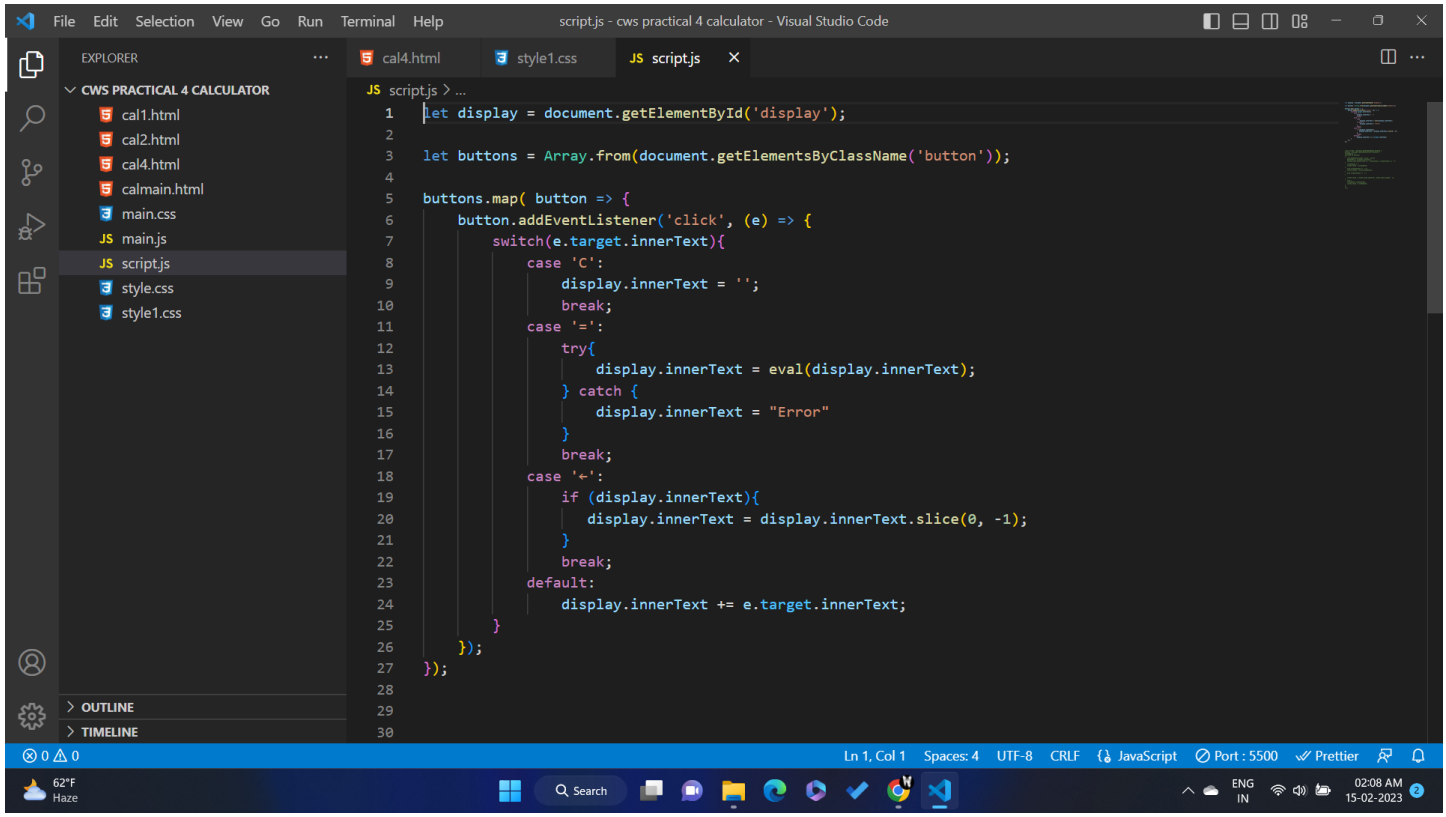
5.


File Edit Selection View Go Run Terminal Help
style1.css - cws practical 4 calculator - Visual Studio Code
EXPLORER
CWS PRACTICAL 4 CALCULATOR
cal1.html
cal2.html
cal4.html
calmain.html
main.css
main.js
script.js
style.css
style1.css
cal4.html
style1.css
script.js
style1.css > #display
#display::placeholder{
color: #ffffff;
}
.button{
border: none;
width: 60px;
height: 60px;
margin: 10px;
border-radius: 50%;
background: transparent;
color: #ffffff;
font-size: 40px;
box-shadow: -8px -8px 15px rgba(225, 225, 225, 0.2);
cursor: pointer;
}
#equal{
background-color: orange;
}
.operator{
color: #33ffd8;
size: larger;
}
#display {
width: 320px;
OUTLINE
TIMELINE
OneDrive
Screenshot saved
The screenshot was added to your OneDrive.
Ln 55, Col 1
Spaces: 4
UTF-8
62°F
Haze
Search
ENG
IN
02:07 AM
15-02-2023

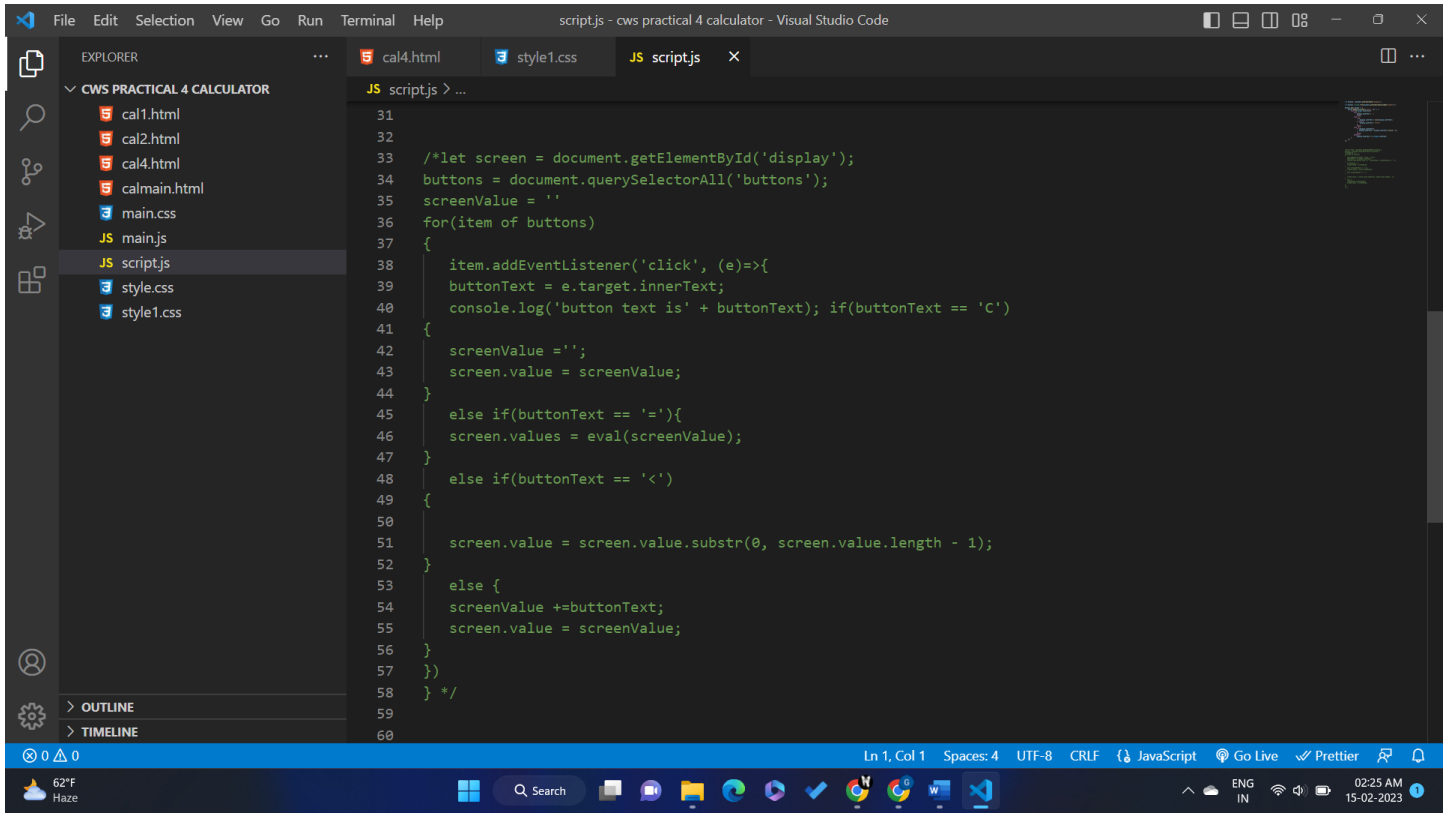
6.


File Edit Selection View Go Run Terminal Help
• style1.css - cws practical 4 calculator - Visual Studio Code
EXPLORER
CWS PRACTICAL 4 CALCULATOR
cal1.html
cal2.html
cal4.html
calmain.html
main.css
main.js
script.js
style.css
style1.css 1
cal4.html
style1.css 1
script.js
style1.css > #display
font-size: 40px;
box-shadow: -8px -8px 15px rgba(225, 225, 225, 0.2);
cursor: pointer;
}
#equal{
background-color: orange;
}
.operator{
color: #33ffd8;
size: larger;
}
#display {
width: 320px;
border: none;
padding: 24px;
margin: 10px;
background: transparent;
box-shadow: 0px 3px 15px rgbs(84, 84, 84, 0.1);
font-size: 35px;
text-align: right;
cursor: pointer;
color: white;
}
/*.buttons {
OUTLINE
TIMELINE
Ln 60, Col 29
Spaces: 4
UTF-8
CRLF
CSS
Port : 5500
Prettier
62°F
Haze
Search
ENG
IN
02:08 AM
15-02-2023

7.


File Edit Selection View Go Run Terminal Help
script.js - cws practical 4 calculator - Visual Studio Code
EXPLORER
CWS PRACTICAL 4 CALCULATOR
cal1.html
cal2.html
cal4.html
calmain.html
main.css
main.js
script.js
style.css
style1.css
cal4.html
style1.css
script.js
JS script.js > ...
let display = document.getElementById('display');
let buttons = Array.from(document.getElementsByClassName('button'));
buttons.map(button => {
button.addEventListener('click', (e) => {
switch(e.target.innerText){
case 'C':
display.innerText = '';
break;
case '=':
try{
display.innerText = eval(display.innerText);
} catch {
display.innerText = "Error"
}
break;
case '←':
if (display.innerText){
display.innerText = display.innerText.slice(0, -1);
}
break;
default:
display.innerText += e.target.innerText;
}
});
});
OUTLINE
TIMELINE
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF JavaScript Port : 5500 Prettier
62°F Haze
Search
ENG IN
02:08 AM 15-02-2023

8.


File Edit Selection View Go Run Terminal Help
script.js - cws practical 4 calculator - Visual Studio Code
EXPLORER
CWS PRACTICAL 4 CALCULATOR
cal1.html
cal2.html
cal4.html
calmain.html
main.css
main.js
script.js
style.css
style1.css
cal4.html
style1.css
script.js
JS script.js > ...
/*let screen = document.getElementById('display');
buttons = document.querySelectorAll('buttons');
screenValue = ''
for(item of buttons)
{
item.addEventListener('click', (e)=>{
buttonText = e.target.innerText;
console.log('button text is' + buttonText); if(buttonText == 'C')
{
screenValue ='';
screen.value = screenValue;
}
else if(buttonText == '='){
screen.values = eval(screenValue);
}
else if(buttonText == '<')
{
screen.value = screen.value.substr(0, screen.value.length - 1);
}
else {
screenValue +=buttonText;
screen.value = screenValue;
}
})
} */
OUTLINE
TIMELINE
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF JavaScript Go Live Prettier
62°F Haze
Search
ENG IN
02:25 AM 15-02-2023

CONCLUSION- >Through this practical I learnt about the basics of javascript.
>I used for and switch cases in js.
>I also learnt about elements like GetElementbyId and querySelectorAll, etc.
> I also tried to build my own logic, for the arithmetic of the calculation.
>I improved my skills in css.

THANK YOU 😊