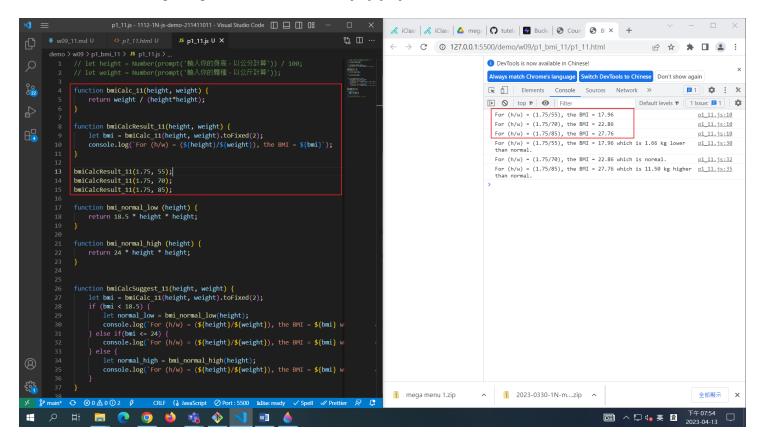# Github URL

W09-P1: Midprep P1 answer (a)(b)

```
11      }
12
13      bmiCalcResult_11(1.75, 55);
14      bmiCalcResult_11(1.75, 70);
15      bmiCalcResult_11(1.75, 85);
16
17      function bmi_normal_low (height) {
18          return 18.5 * height * height;
19      }
20
21      function bmi_normal_high (height) {
22          return 24 * height * height;
23      }
24
25
26      function bmiCalcSuggest_11(height, weight) {
27          let bmi = bmiCalc_11(height, weight).toFixed(2);
28          if (bmi < 18.5) {
29              let normal_low = bmi_normal_low(height);
30              console.log(`For (h/w) = (${height}/${weight}), the BMI = ${bmi}
31              which is ${(normal_low - weight).toFixed(2)} kg lower than normal.`);
32          } else if(bmi <= 24) {
33              console.log(`For (h/w) = (${height}/${weight}), the BMI = ${bmi}
34              which is normal.`);
35          } else {
36              let normal_high = bmi_normal_high(height);
37              console.log(`For (h/w) = (${height}/${weight}), the BMI = ${bmi}
38              which is ${(weight - normal_high).toFixed(2)} kg higher than normal.`);
39          }
40      }
41
42      bmiCalcSuggest_11(1.75, 55);
43      bmiCalcSuggest_11(1.75, 70);
44      bmiCalcSuggest_11(1.75, 85);
45
46      const bmi_data_11 = [
47          {height: 1.75, weight: 55},
48          {height: 1.75, weight: 70},
```
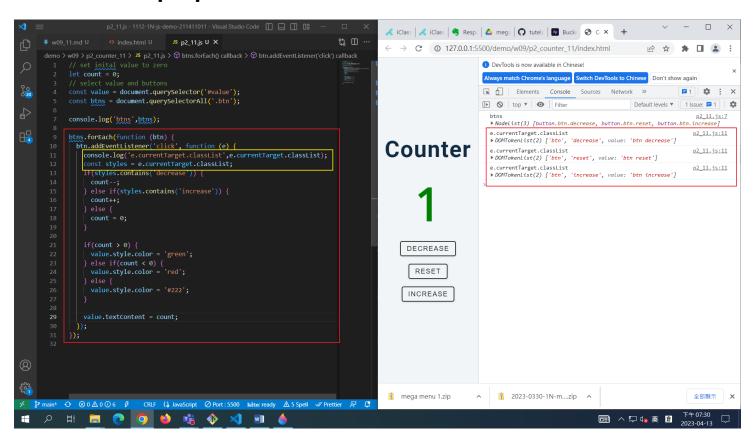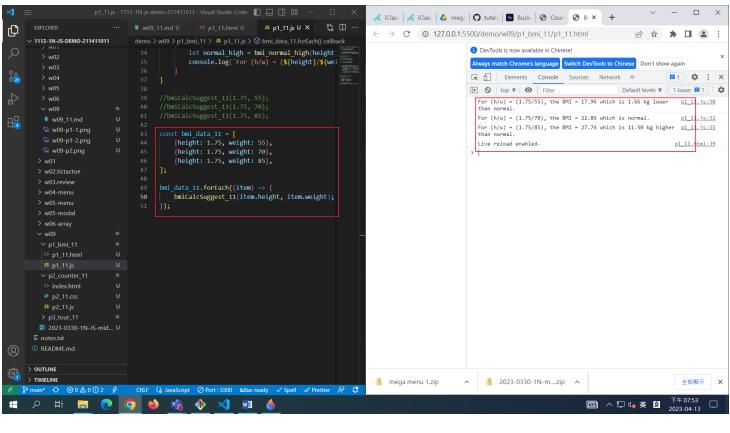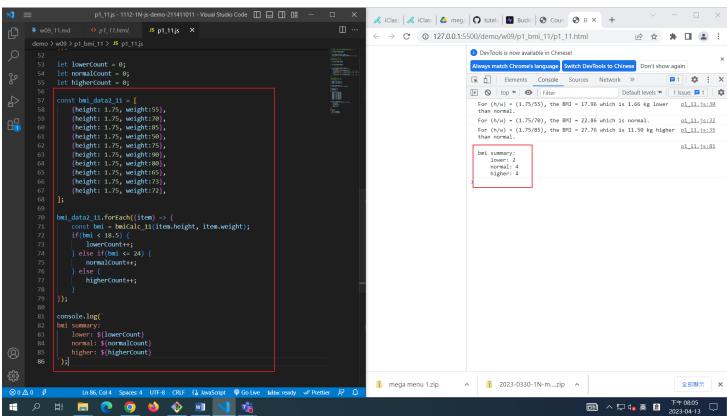
f6c8bc7 tutelary1105   Thu Apr 13 20:07:16 2023 +0800   W09-P1: Midprep P1 answer (a)(b)
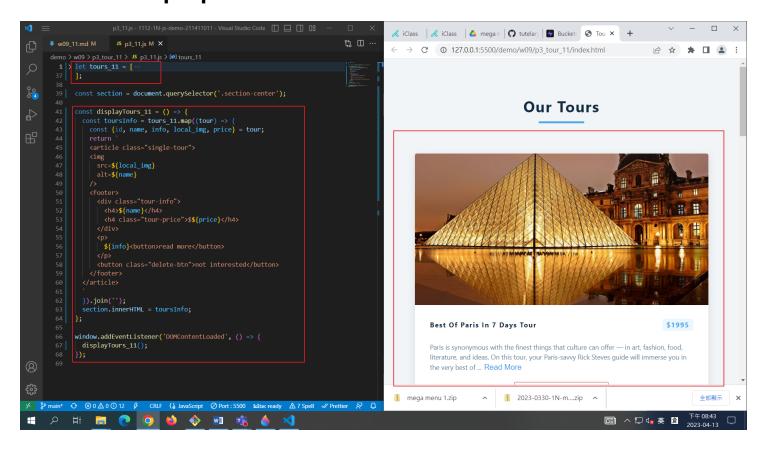
W09-P2: Midprep P1 answer


```
1   // set inital value to zero
2   let count = 0;
3   // select value and buttons
4   const value = document.querySelector('#value');
5   const btns = document.querySelectorAll('.btn');
6
7   console.log('btns',btns);
8
9   btns.forEach(function (btn) {
10      btn.addEventListener('click', function (e) {
11          console.log('e.currentTarget.classList',e.currentTarget.classList);
12          const styles = e.currentTarget.classList;
13          if(styles.contains('decrease')) {
14              count--;
15          } else if(styles.contains('increase')) {
16              count++;
17          } else {
18              count = 0;
19          }
20
21          if(count > 0) {
22              value.style.color = 'green';
23          } else if(count < 0) {
24              value.style.color = 'red';
25          } else {
26              value.style.color = '#222';
27          }
28
29          value.textContent = count;
30      });
31  });
32
```

W09-P3: Midprep P1 answer (c)(d)


```javascript
34          let normal_high = bmi_normal_high(height
35          console.log(`For (h/w) = (${height}/${we
36      }
37  }
38
39  //bmiCalcSuggest_11(1.75, 55);
40  //bmiCalcSuggest_11(1.75, 70);
41  //bmiCalcSuggest_11(1.75, 85);
42
43  const bmi_data_11 = [
44      {height: 1.75, weight: 55},
45      {height: 1.75, weight: 70},
46      {height: 1.75, weight: 85},
47  ];
48
49  bmi_data_11.forEach((item) => {
50      bmiCalcSuggest_11(item.height, item.weight);
51  });
```

Console:
```
For (h/w) = (1.75/55), the BMI is 17.96 which is 1.66 kg lower    p1_11.js:30
than normal.
For (h/w) = (1.75/70), the BMI is 22.86 which is normal.          p1_11.js:32
For (h/w) = (1.75/85), the BMI is 27.76 which is 11.50 kg higher  p1_11.js:35
than normal.
Live reload enabled.                                             p1_11.html:39
```



```javascript
52
53  let lowerCount = 0;
54  let normalCount = 0;
55  let higherCount = 0;
56
57  const bmi_data2_11 = [
58      {height: 1.75, weight:55},
59      {height: 1.75, weight:70},
60      {height: 1.75, weight:85},
61      {height: 1.75, weight:50},
62      {height: 1.75, weight:75},
63      {height: 1.75, weight:90},
64      {height: 1.75, weight:80},
65      {height: 1.75, weight:65},
66      {height: 1.75, weight:73},
67      {height: 1.75, weight:72},
68  ];
69
70  bmi_data2_11.forEach((item) => {
71      const bmi = bmiCalc_11(item.height, item.weight);
72      if(bmi < 18.5) {
73          lowerCount++;
74      } else if(bmi <= 24) {
75          normalCount++;
76      } else {
77          higherCount++;
78      }
79  });
80
81  console.log(`
82  bmi summary:
83      lower: ${lowerCount}
84      normal: ${normalCount}
85      higher: ${higherCount}
86  `);
```

Console:
```
For (h/w) = (1.75/55), the BMI is 17.96 which is 1.66 kg lower    p1_11.js:30
than normal.
For (h/w) = (1.75/70), the BMI is 22.86 which is normal.          p1_11.js:32
For (h/w) = (1.75/85), the BMI is 27.76 which is 11.50 kg higher  p1_11.js:35
than normal.
                                                                  p1_11.js:81
bmi summary:
    lower: 2
    normal: 4
    higher: 4
```

W09-P4: Midprep P3 answer

e5aa319 tutelary1105   Thu Apr 13 20:44:54 2023 +0800   W09-P4: Midprep P3 answer

W09-logs

$ git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2023-4-12"