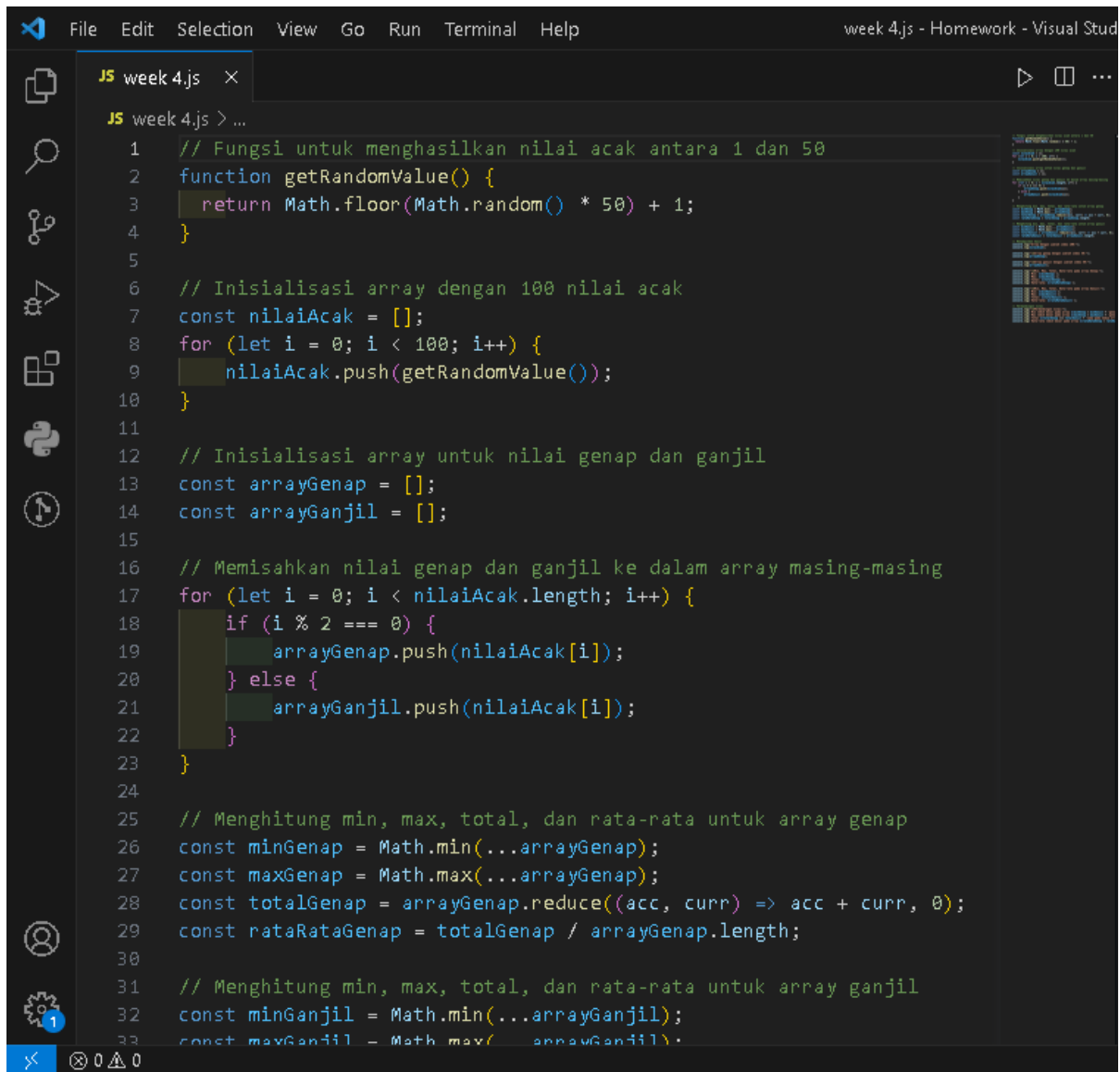


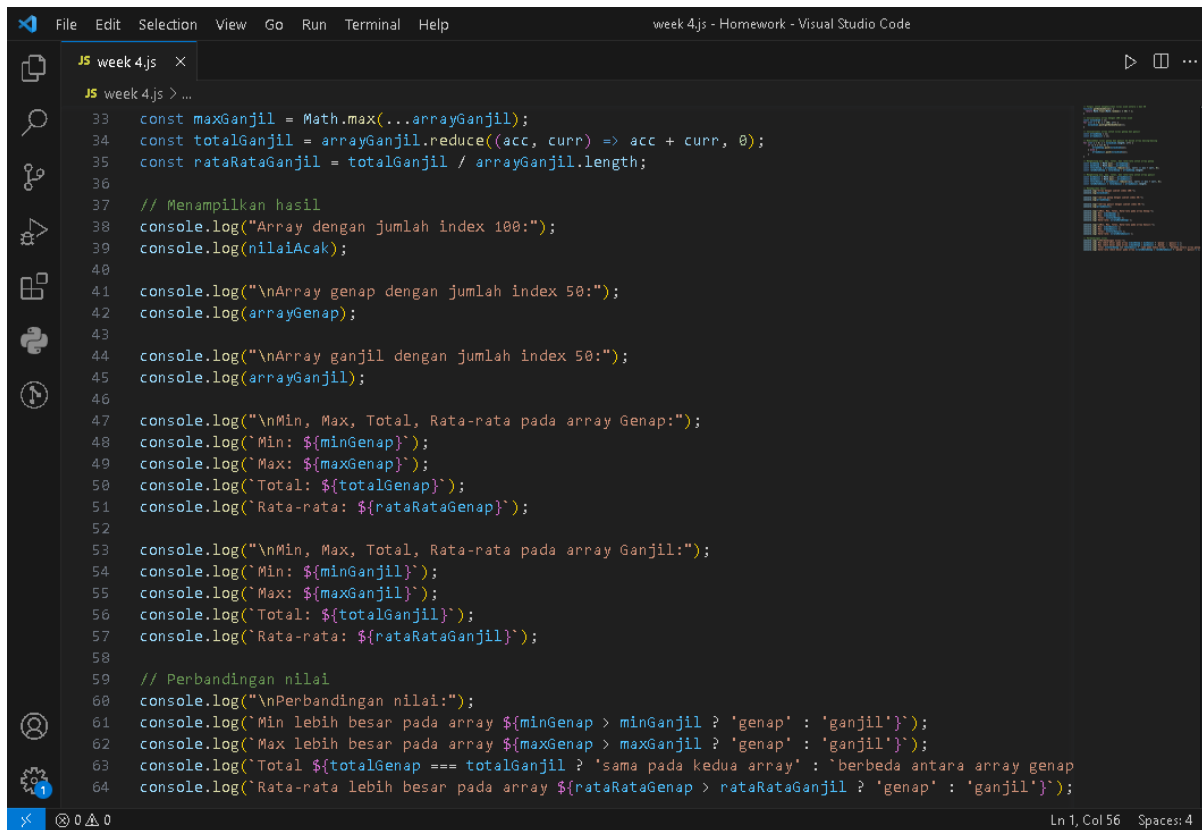
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Homework - Javascript & Version Control

Tampilan script code week 4.js

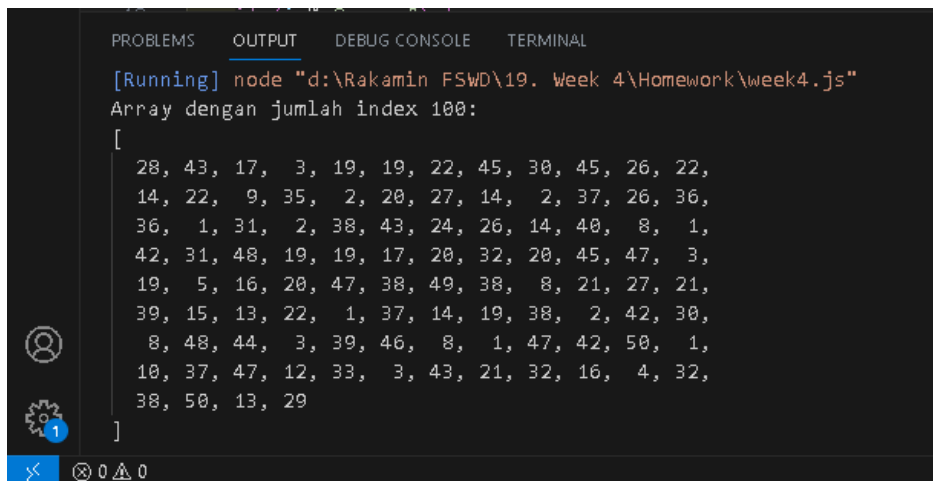


```
JS week 4.js > ...
1 // Fungsi untuk menghasilkan nilai acak antara 1 dan 50
2 function getRandomValue() {
3     return Math.floor(Math.random() * 50) + 1;
4 }
5
6 // Inisialisasi array dengan 100 nilai acak
7 const nilaiAcak = [];
8 for (let i = 0; i < 100; i++) {
9     nilaiAcak.push(getRandomValue());
10 }
11
12 // Inisialisasi array untuk nilai genap dan ganjil
13 const arrayGenap = [];
14 const arrayGanjil = [];
15
16 // Memisahkan nilai genap dan ganjil ke dalam array masing-masing
17 for (let i = 0; i < nilaiAcak.length; i++) {
18     if (i % 2 === 0) {
19         arrayGenap.push(nilaiAcak[i]);
20     } else {
21         arrayGanjil.push(nilaiAcak[i]);
22     }
23 }
24
25 // Menghitung min, max, total, dan rata-rata untuk array genap
26 const minGenap = Math.min(...arrayGenap);
27 const maxGenap = Math.max(...arrayGenap);
28 const totalGenap = arrayGenap.reduce((acc, curr) => acc + curr, 0);
29 const rataRataGenap = totalGenap / arrayGenap.length;
30
31 // Menghitung min, max, total, dan rata-rata untuk array ganjil
32 const minGanjil = Math.min(...arrayGanjil);
33 const maxGanjil = Math.max(...arrayGanjil);
```



```
JS week 4.js
JS week 4.js > ...
33 const maxGanjil = Math.max(...arrayGanjil);
34 const totalGanjil = arrayGanjil.reduce((acc, curr) => acc + curr, 0);
35 const rataRataGanjil = totalGanjil / arrayGanjil.length;
36
37 // Menampilkan hasil
38 console.log("Array dengan jumlah index 100:");
39 console.log(nilaiAcak);
40
41 console.log("\nArray genap dengan jumlah index 50:");
42 console.log(arrayGenap);
43
44 console.log("\nArray ganjil dengan jumlah index 50:");
45 console.log(arrayGanjil);
46
47 console.log("\nMin, Max, Total, Rata-rata pada array Genap:");
48 console.log(`Min: ${minGenap}`);
49 console.log(`Max: ${maxGenap}`);
50 console.log(`Total: ${totalGenap}`);
51 console.log(`Rata-rata: ${rataRataGenap}`);
52
53 console.log("\nMin, Max, Total, Rata-rata pada array Ganjil:");
54 console.log(`Min: ${minGanjil}`);
55 console.log(`Max: ${maxGanjil}`);
56 console.log(`Total: ${totalGanjil}`);
57 console.log(`Rata-rata: ${rataRataGanjil}`);
58
59 // Perbandingan nilai
60 console.log("\nPerbandingan nilai:");
61 console.log(`Min lebih besar pada array ${minGenap > minGanjil ? 'genap' : 'ganjil'}`);
62 console.log(`Max lebih besar pada array ${maxGenap > maxGanjil ? 'genap' : 'ganjil'}`);
63 console.log(`Total ${totalGenap === totalGanjil ? 'sama pada kedua array' : 'berbeda antara array genap'}`);
64 console.log(`Rata-rata lebih besar pada array ${rataRataGenap > rataRataGanjil ? 'genap' : 'ganjil'}`);
```

Array dalam jumlah index 100



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
[Running] node "d:\Rakamin FSWD\19. Week 4\Homework\week4.js"
Array dengan jumlah index 100:
[
  28, 43, 17, 3, 19, 19, 22, 45, 30, 45, 26, 22,
  14, 22, 9, 35, 2, 20, 27, 14, 2, 37, 26, 36,
  36, 1, 31, 2, 38, 43, 24, 26, 14, 40, 8, 1,
  42, 31, 48, 19, 19, 17, 20, 32, 20, 45, 47, 3,
  19, 5, 16, 20, 47, 38, 49, 38, 8, 21, 27, 21,
  39, 15, 13, 22, 1, 37, 14, 19, 38, 2, 42, 30,
  8, 48, 44, 3, 39, 46, 8, 1, 47, 42, 50, 1,
  10, 37, 47, 12, 33, 3, 43, 21, 32, 16, 4, 32,
  38, 50, 13, 29
]
```

Array genap dengan jumlah index 50

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

Array genap dengan jumlah index 50:
[
  28, 17, 19, 22, 30, 26, 14,  9,  2, 27,  2,
  26, 36, 31, 38, 24, 14,  8, 42, 48, 19, 20,
  20, 47, 19, 16, 47, 49,  8, 27, 39, 13,  1,
  14, 38, 42,  8, 44, 39,  8, 47, 50, 10, 47,
  33, 43, 32,  4, 38, 13
]
```

Array ganjil dengan jumlah index 50

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

Array ganjil dengan jumlah index 50:
[
  43,  3, 19, 45, 45, 22, 22, 35, 20, 14, 37,
  36,  1,  2, 43, 26, 40,  1, 31, 19, 17, 32,
  45,  3,  5, 20, 38, 38, 21, 21, 15, 22, 37,
  19,  2, 30, 48,  3, 46,  1, 42,  1, 37, 12,
  3, 21, 16, 32, 50, 29
]
```

Min, Max, Total, Rata rata pada setiap array (genap dan ganjil)

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

Min, Max, Total, Rata-rata pada array Genap:
Min: 1
Max: 50
Total: 1298
Rata-rata: 25.96

Min, Max, Total, Rata-rata pada array Ganjil:
Min: 1
Max: 50
Total: 1210
Rata-rata: 24.2
```

Perbandingan nilai min, max, total dan rata rata

```
Perbandingan nilai:  
Min lebih besar pada array ganjil  
Max lebih besar pada array ganjil  
Total berbeda antara array genap dan ganjil  
Rata-rata lebih besar pada array genap  
  
[Done] exited with code=0 in 0.542 seconds
```

Link Repository Github : https://github.com/tricahyaf/TriCahya_Rakamin