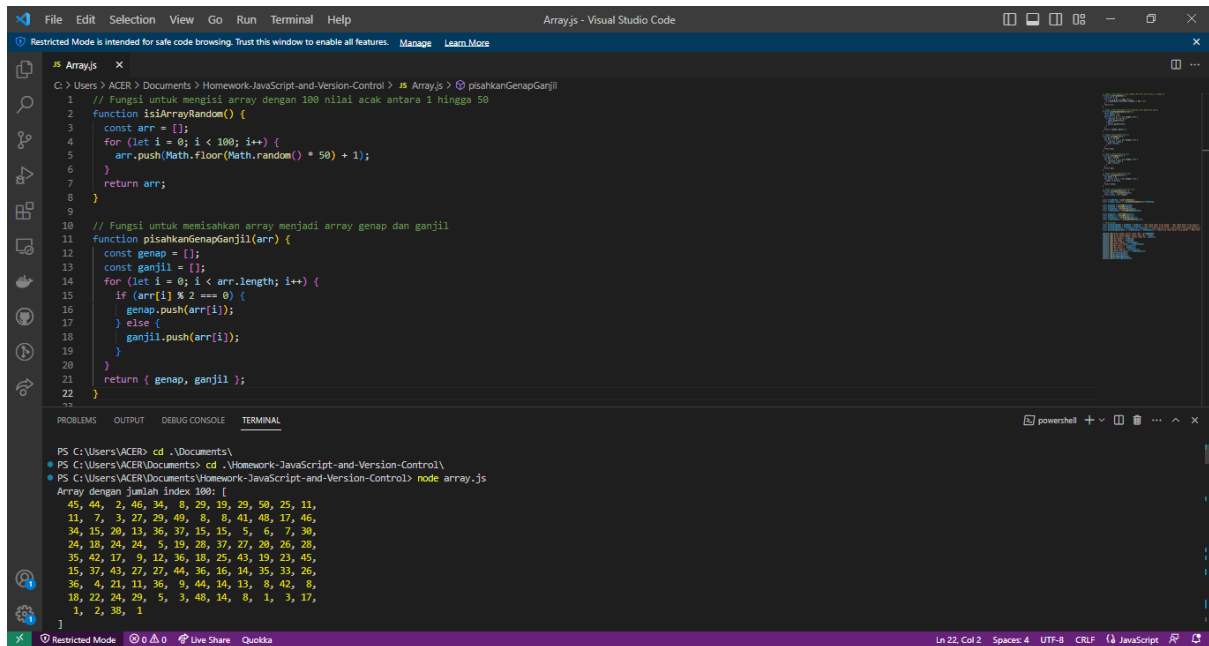
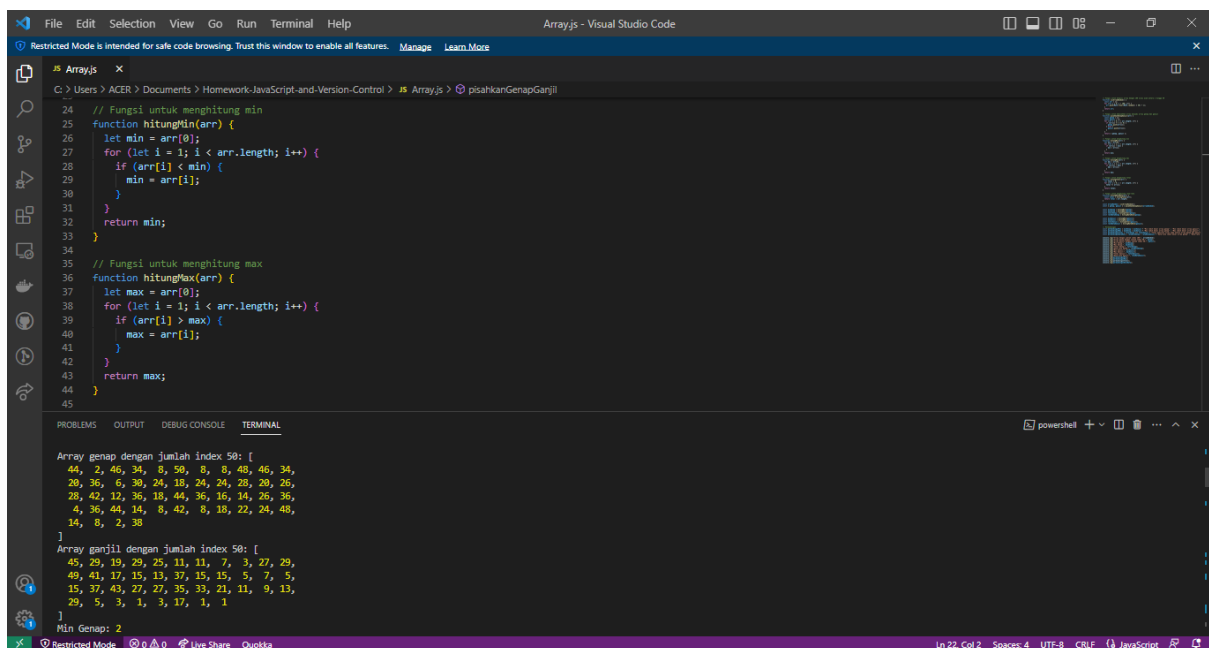


<https://github.com/Beni-Zhang/HW-JavaScript-and-Version-Control/blob/master/Array.js>



```
File Edit Selection View Go Run Terminal Help
Arrays - Visual Studio Code
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Array.js
C:\Users\ACER> Documents > Homework-JavaScript-and-Version-Control > Array.js > pisahkanGenapGanjil
1 // Fungsi untuk mengisi array dengan 100 nilai acak antara 1 hingga 50
2 function isiArrayRandom() {
3   const arr = [];
4   for (let i = 0; i < 100; i++) {
5     arr.push(Math.Floor(Math.random() * 50) + 1);
6   }
7   return arr;
8 }
9
10 // Fungsi untuk memisahkan array menjadi array genap dan ganjil
11 function pisahkanGenapGanjil(arr) {
12   const genap = [];
13   const ganjil = [];
14   for (let i = 0; i < arr.length; i++) {
15     if (arr[i] % 2 === 0) {
16       genap.push(arr[i]);
17     } else {
18       ganjil.push(arr[i]);
19     }
20   }
21   return { genap, ganjil };
22 }
23
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\ACER> cd .\Documents\
PS C:\Users\ACER\Documents> cd .\Homework-JavaScript-and-Version-Control\
PS C:\Users\ACER\Documents\Homework-JavaScript-and-Version-Control> node array.js
Array dengan jumlah index 100: [
  45, 44, 2, 46, 34, 8, 29, 19, 29, 50, 25, 11,
  11, 7, 3, 27, 29, 49, 8, 8, 41, 48, 17, 46,
  34, 15, 20, 13, 36, 37, 15, 15, 5, 6, 7, 30,
  24, 18, 24, 24, 5, 19, 20, 37, 27, 20, 26, 26,
  35, 42, 17, 9, 12, 36, 18, 25, 43, 19, 23, 45,
  15, 37, 43, 27, 27, 44, 36, 16, 14, 35, 33, 26,
  36, 4, 21, 11, 36, 9, 44, 14, 13, 8, 42, 8,
  18, 22, 24, 29, 5, 3, 48, 14, 8, 1, 3, 17,
  1, 2, 30, 1
]
```



```
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Arrays - Visual Studio Code
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Array.js
C:\Users\ACER> Documents > Homework-JavaScript-and-Version-Control > Array.js > pisahkanGenapGanjil
24 // Fungsi untuk menghitung min
25 function hitungMin(arr) {
26   let min = arr[0];
27   for (let i = 1; i < arr.length; i++) {
28     if (arr[i] < min) {
29       min = arr[i];
30     }
31   }
32   return min;
33 }
34
35 // Fungsi untuk menghitung max
36 function hitungMax(arr) {
37   let max = arr[0];
38   for (let i = 1; i < arr.length; i++) {
39     if (arr[i] > max) {
40       max = arr[i];
41     }
42   }
43   return max;
44 }
45
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Array genap dengan jumlah index 50: [
  44, 2, 46, 34, 8, 50, 8, 8, 48, 46, 34,
  20, 36, 6, 30, 24, 18, 24, 24, 28, 20, 26,
  28, 42, 12, 36, 18, 44, 36, 16, 14, 26, 36,
  4, 36, 44, 34, 8, 42, 8, 18, 22, 24, 48,
  14, 8, 2, 38
]
Array ganjil dengan jumlah index 50: [
  45, 29, 19, 29, 25, 11, 11, 7, 3, 27, 29,
  49, 41, 17, 15, 13, 37, 15, 15, 5, 7, 5,
  15, 37, 43, 27, 27, 35, 33, 21, 11, 9, 13,
  29, 5, 3, 1, 3, 17, 1, 1
]
Min Genap: 2
```

The screenshot shows a Visual Studio Code window with a file named `Array.js`. The code defines two functions: `hitungTotal(arr)` which calculates the sum of an array, and `hitungRataRata(arr)` which calculates the average. It then generates two random arrays, `genap` and `ganjil`, and calculates their respective min, max, total, and average values. The terminal output shows the results of these calculations.

```
46 // Fungsi untuk menghitung total
47 function hitungTotal(arr) {
48   let total = 0;
49   for (let i = 0; i < arr.length; i++) {
50     total += arr[i];
51   }
52   return total;
53 }
54
55 // Fungsi untuk menghitung rata-rata
56 function hitungRataRata(arr) {
57   const total = hitungTotal(arr);
58   return total / arr.length;
59 }
60
61 const arrayRandom = isiArrayRandom();
62 const [ genap, ganjil ] = pisahkanGenapGanjil(arrayRandom);
63
64 const minGenap = hitungMin(genap);
65 const maxGenap = hitungMax(genap);
66 const totalGenap = hitungTotal(genap);
67 const rataRataGenap = hitungRataRata(genap);
68
69 const minGanjil = hitungMin(ganjil);
70 const maxGanjil = hitungMax(ganjil);
```

Terminal Output:

```
Min Genap: 2
Max Genap: 50
Total Genap: 1222
Rata-rata Genap: 25.458333333333332
Min Ganjil: 1
Max Ganjil: 49
Total Ganjil: 1084
Rata-rata Ganjil: 20.846153846153847
Min lebih besar array genap
Max lebih besar array genap
Total berbeda antara array genap dan ganjil
Rata-rata lebih besar array genap
```

The screenshot shows a Visual Studio Code window with a file named `Array.js`. The code defines two functions: `hitungTotal(arr)` which calculates the sum of an array, and `hitungRataRata(arr)` which calculates the average. It then generates two random arrays, `genap` and `ganjil`, and calculates their respective min, max, total, and average values. The terminal output shows the results of these calculations.

```
69 const minGanjil = hitungMin(ganjil);
70 const maxGanjil = hitungMax(ganjil);
71 const totalGanjil = hitungTotal(ganjil);
72 const rataRataGanjil = hitungRataRata(ganjil);
73
74 // Perbandingan
75 const perbandinganMin = minGenap > minGanjil ? "Min lebih besar array genap" : "Min lebih besar array ganjil";
76 const perbandinganMax = maxGenap > maxGanjil ? "Max lebih besar array genap" : "Max lebih besar array ganjil";
77 const perbandinganTotal = totalGenap === totalGanjil ? "Total memiliki nilai sama antara array genap dan ganjil" : "Total berbeda antara array genap dan ganjil";
78 const perbandinganRataRata = rataRataGenap > rataRataGanjil ? "Rata-rata lebih besar array genap" : "Rata-rata lebih besar array ganjil";
79
80 console.log("Array dengan jumlah index 100:", arrayRandom);
81 console.log("Array genap dengan jumlah index 50:", genap);
82 console.log("Array ganjil dengan jumlah index 50:", ganjil);
83 console.log("Min Genap:", minGenap);
84 console.log("Max Genap:", maxGenap);
85 console.log("Total Genap:", totalGenap);
86 console.log("Rata-rata Genap:", rataRataGenap);
87 console.log("Min Ganjil:", minGanjil);
88 console.log("Max Ganjil:", maxGanjil);
89 console.log("Total Ganjil:", totalGanjil);
90 console.log("Rata-rata Ganjil:", rataRataGanjil);
91 console.log(perbandinganMin);
92 console.log(perbandinganMax);
93 console.log(perbandinganTotal);
```

Terminal Output:

```
Min Genap: 2
Max Genap: 50
Total Genap: 1222
Rata-rata Genap: 25.458333333333332
Min Ganjil: 1
Max Ganjil: 49
Total Ganjil: 1084
Rata-rata Ganjil: 20.846153846153847
Min lebih besar array genap
Max lebih besar array genap
Total berbeda antara array genap dan ganjil
Rata-rata lebih besar array genap
```

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Arrays - Visual Studio Code

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Arrays

```
74 // Perbandingan
75 const perbandinganMin = minGenap > minGanjil ? "Min lebih besar array genap" : "Min lebih besar array ganjil";
76 const perbandinganMax = maxGenap > maxGanjil ? "Max lebih besar array genap" : "Max lebih besar array ganjil";
77 const perbandinganTotal = totalGenap === totalGanjil ? "Total memiliki nilai sama antara array genap dan ganjil" : "Total berbeda antara array genap dan ganjil";
78 const perbandinganRataRata = rataRataGenap > rataRataGanjil ? "Rata-rata lebih besar array genap" : "Rata-rata lebih besar array ganjil";
79
80 console.log("Array dengan jumlah index 100:", arrayRandom);
81 console.log("Array genap dengan jumlah index 50:", genap);
82 console.log("Array ganjil dengan jumlah index 50:", ganjil);
83 console.log("Min Genap:", minGenap);
84 console.log("Max Genap:", maxGenap);
85 console.log("Total Genap:", totalGenap);
86 console.log("Rata-rata Genap:", rataRataGenap);
87 console.log("Min Ganjil:", minGanjil);
88 console.log("Max Ganjil:", maxGanjil);
89 console.log("Total Ganjil:", totalGanjil);
90 console.log("Rata-rata Ganjil:", rataRataGanjil);
91 console.log(perbandinganMin);
92 console.log(perbandinganMax);
93 console.log(perbandinganTotal);
94 console.log(perbandinganRataRata);
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

Min Genap: 2
Max Genap: 50
Total Genap: 1222
Rata-rata Genap: 25.458333333333332
Min Ganjil: 1
Max Ganjil: 49
Total Ganjil: 1004
Rata-rata Ganjil: 20.046153846153847
Min lebih besar array genap
Max lebih besar array genap
Total berbeda antara array genap dan ganjil
Rata-rata lebih besar array genap

Restricted Mode

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Spaces: 4

UTF-8

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JavaScript