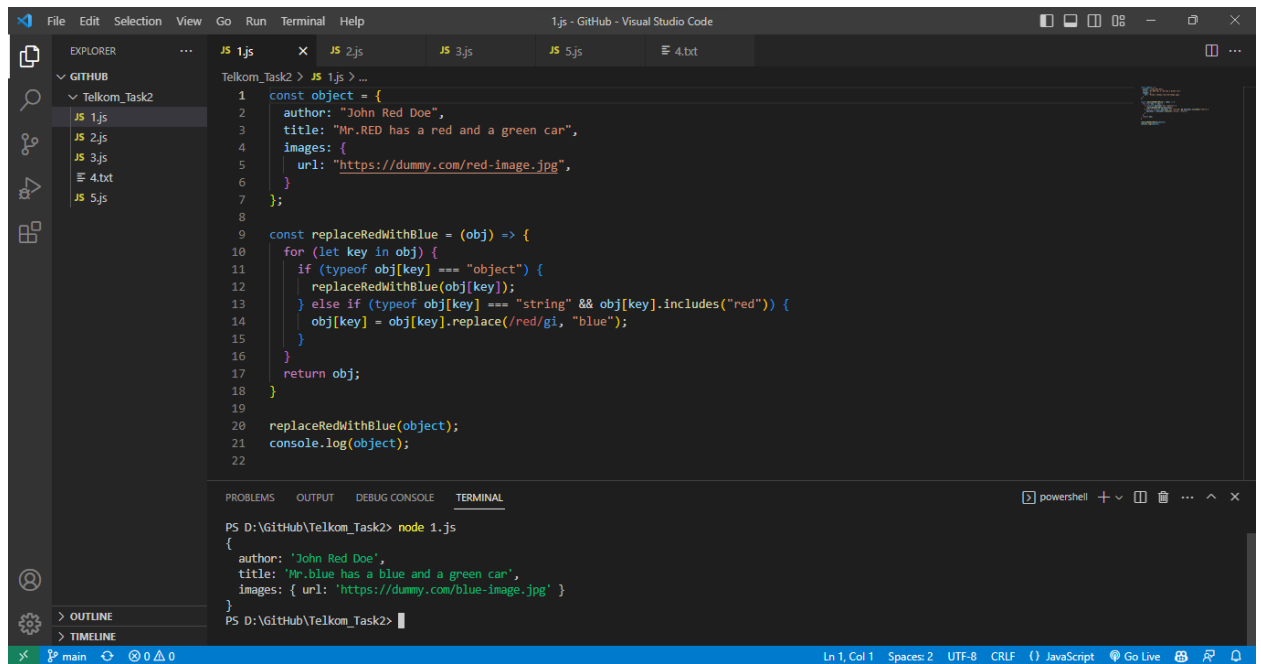


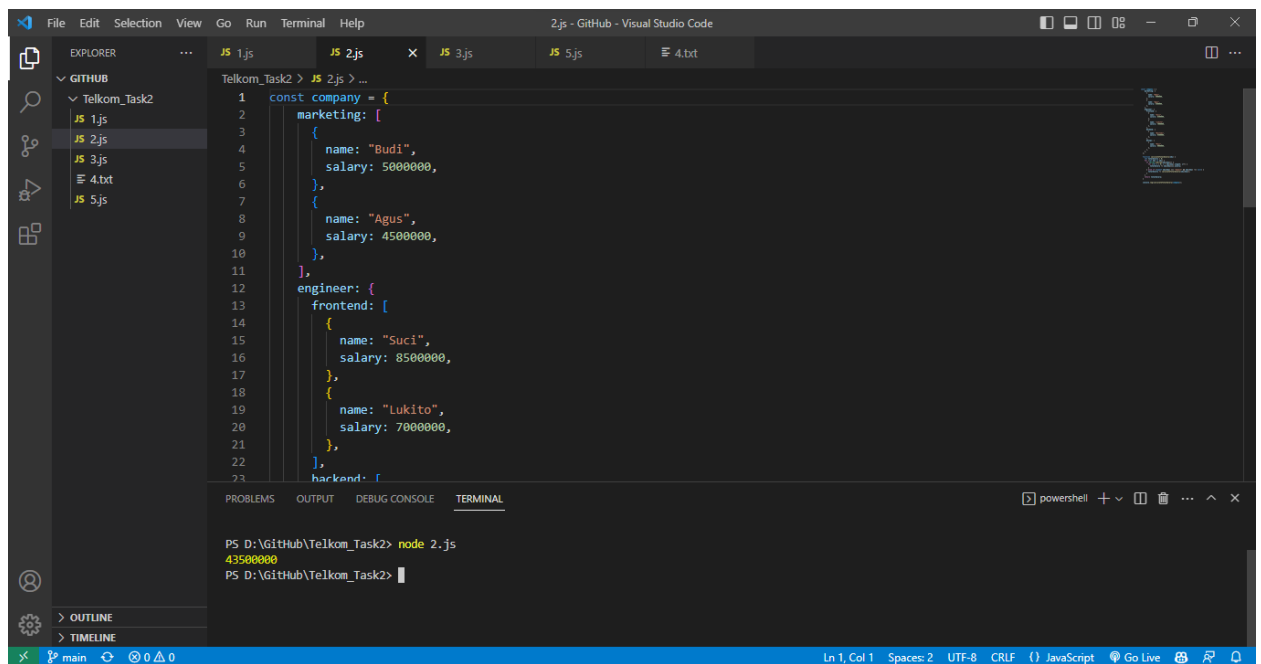
1.



```
1 const object = {
2   author: "John Red Doe",
3   title: "Mr. RED has a red and a green car",
4   images: {
5     url: "https://dummy.com/red-image.jpg",
6   }
7 };
8
9
10 const replaceRedWithBlue = (obj) => {
11   for (let key in obj) {
12     if (typeof obj[key] === "object") {
13       replaceRedWithBlue(obj[key]);
14     } else if (typeof obj[key] === "string" && obj[key].includes("red")) {
15       obj[key] = obj[key].replace(/red/gi, "blue");
16     }
17   }
18   return obj;
19 }
20
21 replaceRedWithBlue(object);
22 console.log(object);
```

```
PS D:\Github\Telkom_Task2> node 1.js
{
  author: 'John Red Doe',
  title: 'Mr.blue has a blue and a green car',
  images: { url: 'https://dummy.com/blue-image.jpg' }
}
```

2.



```
1 const company = {
2   marketing: [
3     {
4       name: "Budi",
5       salary: 5000000,
6     },
7     {
8       name: "Agus",
9       salary: 4500000,
10    },
11  ],
12  engineer: {
13    frontend: [
14      {
15        name: "Suci",
16        salary: 8500000,
17      },
18      {
19        name: "Lukito",
20        salary: 7000000,
21      },
22    ],
23    backend: [
```

```
PS D:\Github\Telkom_Task2> node 2.js
43500000
PS D:\Github\Telkom_Task2>
```

The screenshot shows a Visual Studio Code editor window titled "2.js - GitHub - Visual Studio Code". The Explorer sidebar on the left shows a project named "Telkom_Task2" with files 1.js, 2.js, 3.js, 4.txt, and 5.js. The main editor displays the content of 2.js, which defines a recursive function `calculateTotalSalary(obj)` to sum salaries from a nested object. The terminal at the bottom shows the command `node 2.js` being executed, resulting in the output `43500000`.

```
25     name: "Bustoni",
26     salary: 9500000,
27   },
28 ],
29   devops: [
30     {
31       name: "Paul",
32       salary: 9000000,
33     },
34   ],
35 ],
36 },
37 ];
38
39 function calculateTotalSalary(obj) {
40   let totalSalary = 0;
41   for (let key in obj) {
42     if (Array.isArray(obj[key])) {
43       for (let i = 0; i < obj[key].length; i++) {
44         totalSalary += obj[key][i].salary;
45       }
46     } else if (typeof obj[key] === "object" && obj[key] !== null) {
47       totalSalary += calculateTotalSalary(obj[key]);
48     }
49   }
50   return totalSalary;
51 }
52
53 console.log(calculateTotalSalary(company));
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS D:\GitHub\Telkom_Task2> node 2.js
43500000
PS D:\GitHub\Telkom_Task2>

3.

The screenshot shows a Visual Studio Code editor window titled "3.js - GitHub - Visual Studio Code". The Explorer sidebar shows the same project structure. The main editor displays the content of 3.js, which uses `Promise.all` to fetch data from three different URLs. The terminal shows a network error: `Error fetching data from https://www.boredapis2.com/api/activity TypeError: fetch failed`.

```
1  const urls = [
2    "https://www.boredapi.com/api/activity",
3    "https://www.boredapis.com/api/activity",
4    "https://www.boredapis2.com/api/activity",
5  ];
6
7  function fetchData(url) {
8    return fetch(url)
9      .then((response) => {
10       if (!response.ok) {
11         throw new Error("Network response was not ok");
12       }
13       return response.json();
14     })
15     .then((data) => {
16       return { data, url };
17     })
18     .catch((error) => console.error("Error fetching data from ${url}", error));
19 }
20
21 Promise.all(urls.map(fetchData))
22   .then((results) => {
23     const validResult = results.find((result) => result.data.activity);
24     console.log(validResult);
25   })
26   .catch((error) => console.error("Error fetching data", error));
27
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

at TLShrap.onStreamRead (node:internal/stream_base_commons:217:20) {
 errno: -4077,
 code: "ECONNRESET",
 syscall: "read"
}
Error fetching data from https://www.boredapis2.com/api/activity TypeError: fetch failed
at Object.fetch (node:internal/deps/undici/undici:11413:11)
at process.processTicksAndRejections (node:internal/process/task_queues:95:5)

```
1 const urls = [
2   "https://www.boredapi.com/api/activity",
3   "https://www.boredapi.com/api/activity",
4 ]
5
6 fetch(urls[0])
7   .then(response => response.json())
8   .then(data => {
9     console.log(data);
10  })
11  .catch(error => {
12    console.log(error);
13  })
```

```
PS D:\Github\Telkom_Task2> node 3.js
Error fetching data from https://www.boredapi.com/api/activity TypeError: fetch failed
    at TLSSocket.onStreamRead (node:internal/stream_base_commons:217:20) {
  errno: -4077,
  code: 'ECONNRESET',
  syscall: 'read'
}
Error fetching data from https://www.boredapi2.com/api/activity TypeError: fetch failed
    at Object.fetch (node:internal/deps/undici/undici:11413:11)
    at process.processTicksAndRejections (node:internal/process/task_queues:95:5)
    at async Promise.all (index 2) {
  cause: Error: read ECONNRESET
    at TLSSocket.onStreamRead (node:internal/stream_base_commons:217:20) {
    errno: -4077,
    code: 'ECONNRESET',
    syscall: 'read'
  }
}
```

4. output dari alert adalah 5 karena ketika function example dipanggil lalu mendefinisikan function dummy yang menghasilkan return 5 lalu mendefinisikan kembali function dummy yang menghasilkan return 2. namun, karena pemanggilan dummy terakhir terletak di dalam function example sebelum function dummy yang pertama maka pemanggilan dummy akan kembali ke return 5. sehingga ketika example dipanggil, nilai yang direturn oleh dummy adalah 5
- 5.

```
1 class Car {
2   constructor(brand, year, country) {
3     this.brand = brand;
4     this.year = year;
5     this.country = country;
6   }
7
8   getAge() {
9     let currentYear = new Date().getFullYear();
10    return currentYear - this.year;
11  }
12
13  isMadeInUS() {
14    return this.country === "US";
15  }
16 }
17
18 let myCar = new Car("Toyota", 2015, "Japan");
19
20 console.log(myCar.brand);
21 console.log(myCar.year);
22 console.log(myCar.country);
23 console.log(myCar.getAge());
24 console.log(myCar.isMadeInUS());
```

```
PS D:\Github\Telkom_Task2> node 5.js
Toyota
2015
Japan
8
false
PS D:\Github\Telkom_Task2>
```

https://github.com/PatriciaCindyLiunadi/Telkom_Task2