



MySkill | #RintisKarirImpian

Portofolio - Short Class

Backend Development

Owner: Ika Nurfitriani

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Course Summary



Poin Belajar	Rangkuman
Pengenalan Backend	<p>Seorang developer yang merancang perangkat lunak dari sisi server berhubungan dengan logika dan database dengan menggunakan bahasa pemrograman khusus. Beberapa tugas backend developer diantaranya:</p> <ul style="list-style-type: none">- Merancang struktur model data- Membuat kode program untuk aplikasi agar lebih aman- Mengatasi setiap permasalahan yang muncul di sisi server- Mengembangkan kode program dan melakukan testing- Membuat ide dan konsep untuk ditambahkan pada produk aplikasi- Meningkatkan struktur data yang sudah ada
Karir sebagai Backend Developer	<ol style="list-style-type: none">1. Peluang: Terdapat banyak peluang untuk bekerja sebagai backend developer.2. Salary: Gaji rata-rata untuk backend developer adalah Rp 9 juta per bulan di Indonesia (Tahun 2022).
Tools, Persiapan dan Konsep Pemrograman	<ol style="list-style-type: none">1. Basic knowledge: Internet, Basic Frontend, OS, Learn Programming Language, Database, API.2. Top 7 Programming Languages for Backend Web Development: Javascript, Python, PHP, Java, Ruby, Golang, C#.3. Tools: Text Editor (VS Code), API Playground/APP (Postman), VCS (GitHub)4. Konsep Pemrograman: Variabel, Konstanta, Function, Array, Objek, Kondisional, Perulangan



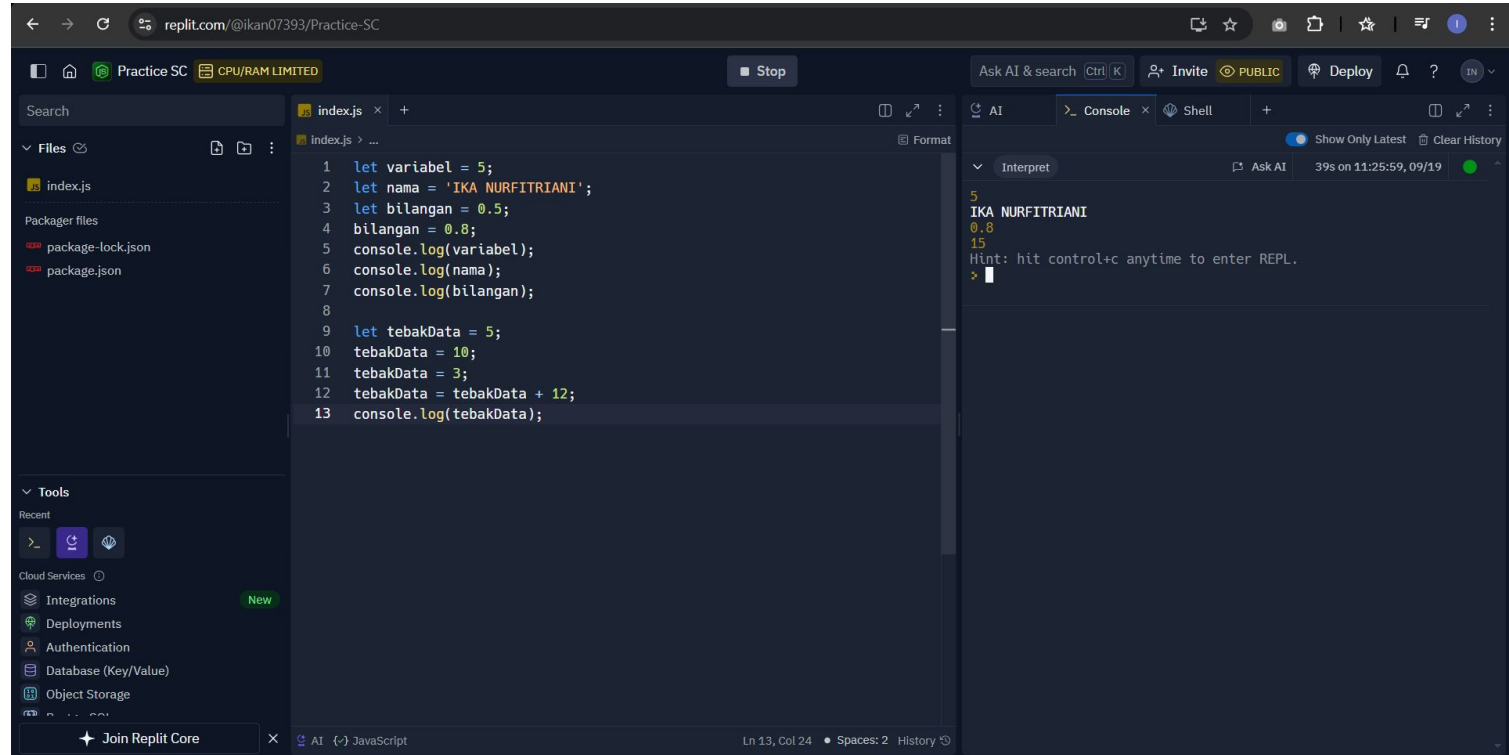
Link Practice

Berikut adalah Link Code yang digunakan untuk practice pada sesi short class Software Engineer - Intro to Backend Development. Akses link berikut sesuai dengan arahan tutor pada saat sesi berlangsung

- <https://replit.com/@zikazama/variable#index.js>
- <https://replit.com/@zikazama/constant>
- <https://replit.com/@zikazama/function>
- <https://replit.com/@zikazama/array#index.js>
- <https://replit.com/@zikazama/object#index.js>
- <https://replit.com/@zikazama/conditional>
- <https://replit.com/@zikazama/looping#index.js>

Hasil Practice

- <https://replit.com/@zikazama/variable#index.js>



The screenshot shows a Replit IDE interface. The main editor displays a file named `index.js` with the following JavaScript code:

```
1 let variabel = 5;
2 let nama = 'IKA NURFITRIANI';
3 let bilangan = 0.5;
4 bilangan = 0.8;
5 console.log(variabel);
6 console.log(nama);
7 console.log(bilangan);
8
9 let tebakData = 5;
10 tebakData = 10;
11 tebakData = 3;
12 tebakData = tebakData + 12;
13 console.log(tebakData);
```

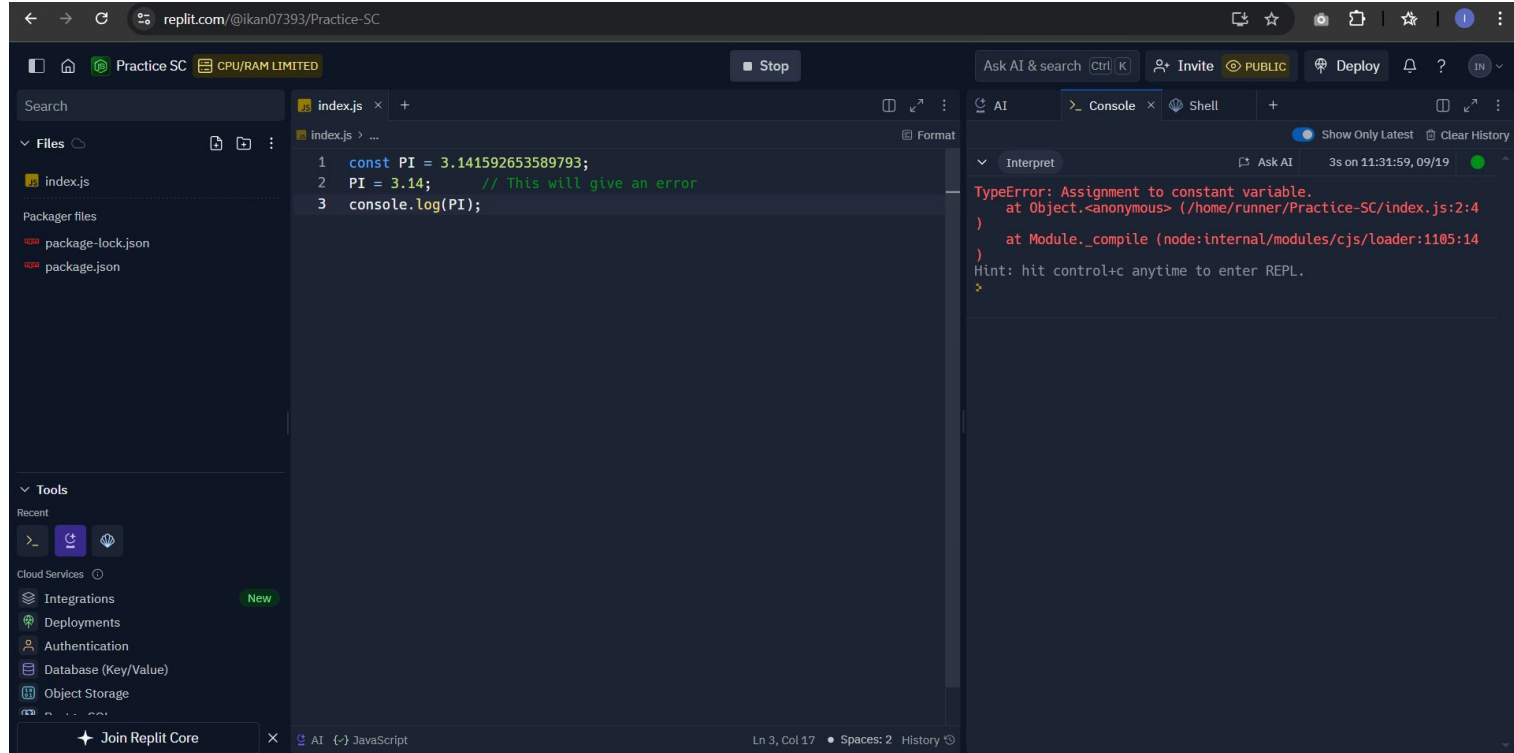
The console output on the right shows the results of the `console.log` statements:

```
5
IKA NURFITRIANI
0.8
15
Hint: hit control+c anytime to enter REPL.
```

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Hasil Practice

- <https://replit.com/@zikazama/constant>



The screenshot shows a Replit IDE interface for a project named "Practice SC". The main editor displays the file `index.js` with the following code:

```
1 const PI = 3.141592653589793;  
2 PI = 3.14; // This will give an error  
3 console.log(PI);
```

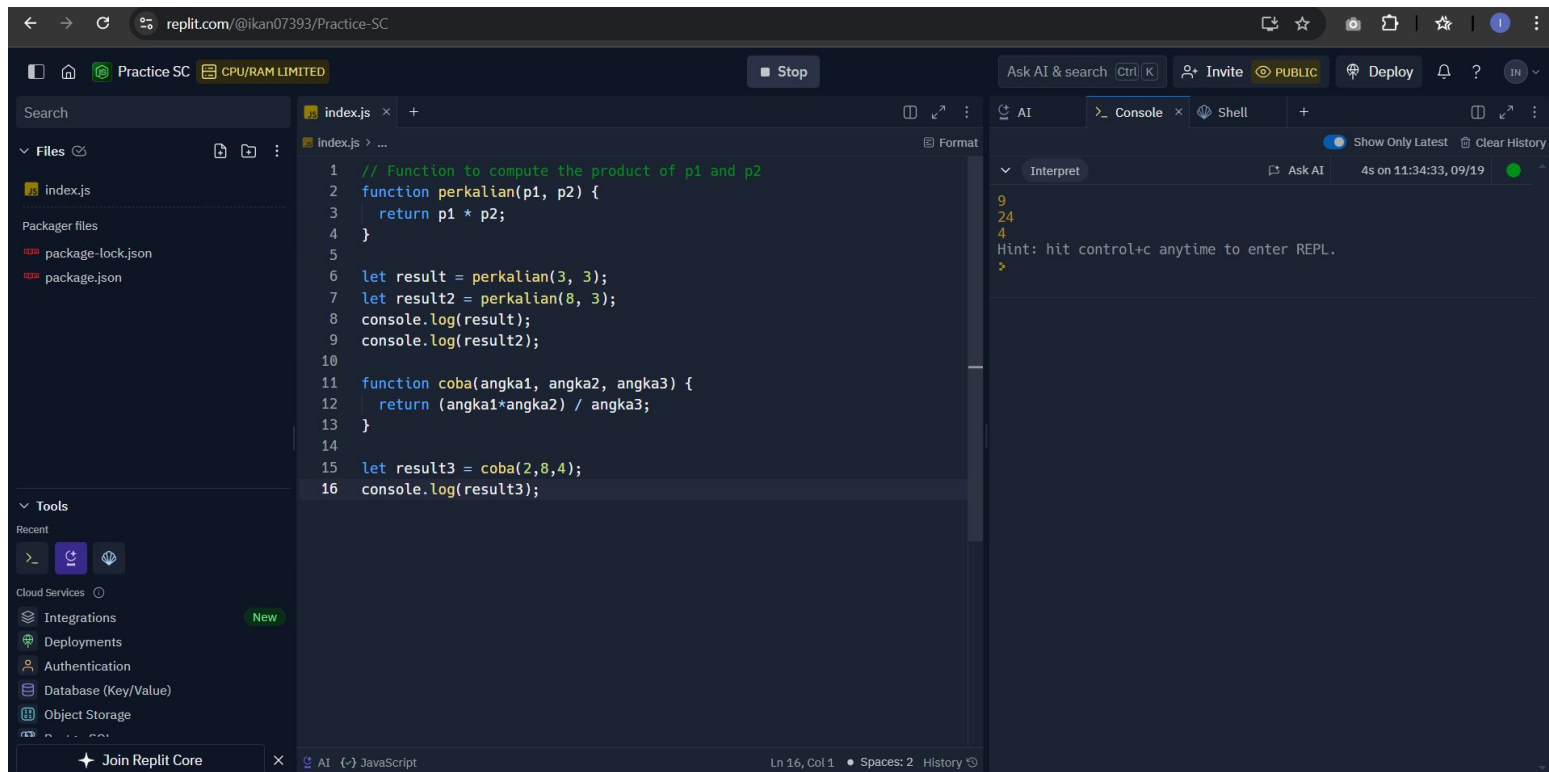
The console on the right shows a runtime error:

```
TypeError: Assignment to constant variable.  
    at Object.<anonymous> (/home/runner/Practice-SC/index.js:2:4)  
    at Module._compile (node:internal/modules/cjs/loader:1105:14)  
    at Module._extensions..js (node:internal/modules/cjs/loader:1164:10)  
    at Module.load (node:internal/modules/cjs/loader:981:32)  
    at Module._load (node:internal/modules/cjs/loader:828:42)  
    at Function.executeUserEntryPoint [as runMain] (node:internal/modules/run_main:81:12)  
    at node:internal/main/run_main_module:22:47
```

The error message indicates a "TypeError: Assignment to constant variable." because the variable `PI`, which was declared as a constant, is being reassigned a new value.

Hasil Practice

- <https://replit.com/@zikazama/function>



The screenshot shows a Replit IDE interface for a project named "Practice SC". The left sidebar displays the file explorer with "index.js" selected. The main editor area shows the following JavaScript code:

```
1 // Function to compute the product of p1 and p2
2 function perkalian(p1, p2) {
3   return p1 * p2;
4 }
5
6 let result = perkalian(3, 3);
7 let result2 = perkalian(8, 3);
8 console.log(result);
9 console.log(result2);
10
11 function coba(angka1, angka2, angka3) {
12   return (angka1*angka2) / angka3;
13 }
14
15 let result3 = coba(2,8,4);
16 console.log(result3);
```

The right sidebar shows the console output with the results of the function calls:

```
9
24
4
Hint: hit control+c anytime to enter REPL.
```

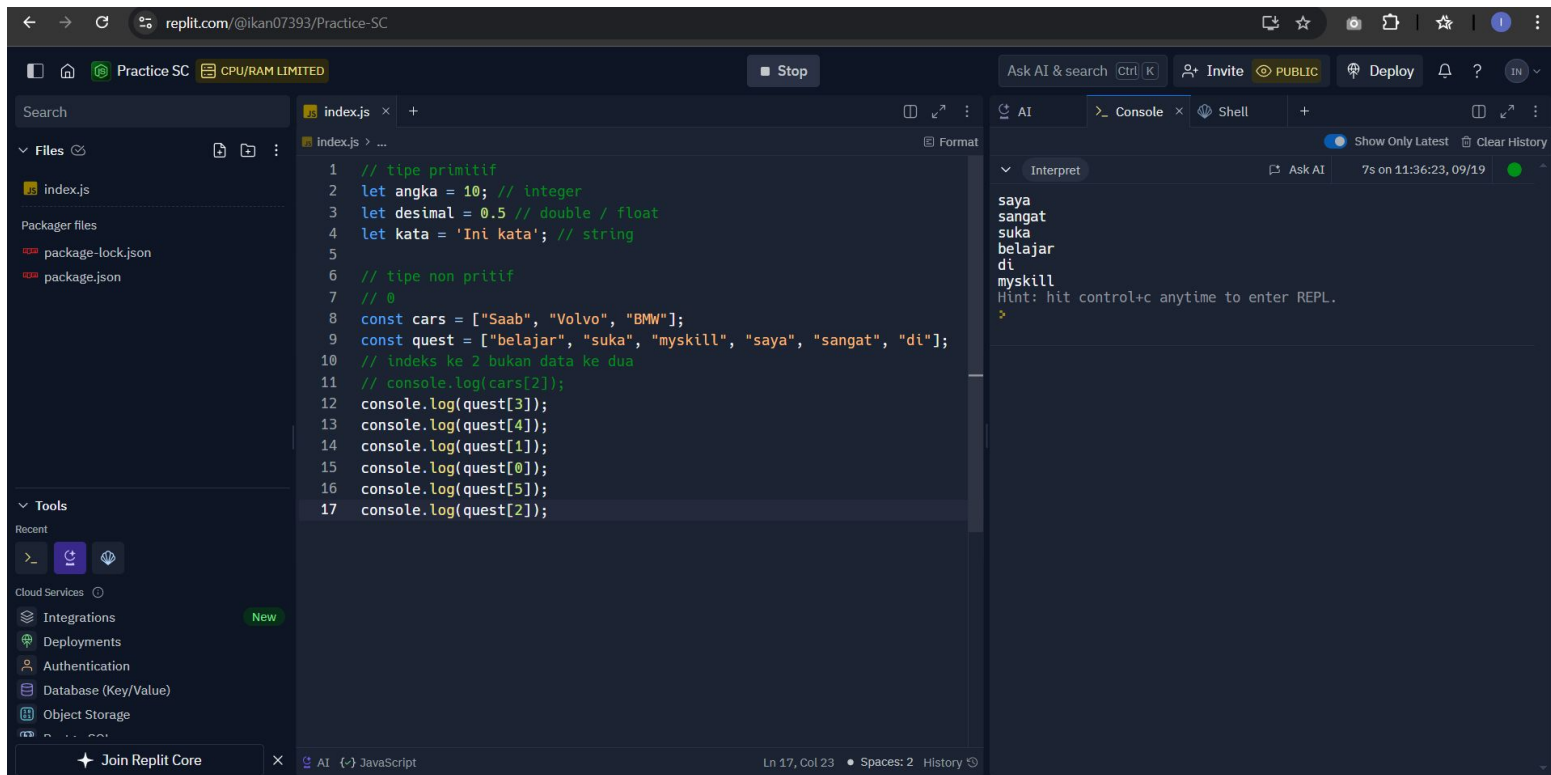
The status bar at the bottom indicates "Ln 16, Col 1" and "Spaces: 2".

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Hasil Practice

- <https://replit.com/@zikazama/array#index.js>



The screenshot shows a Replit IDE interface. The main editor displays a file named `index.js` with the following JavaScript code:

```
1 // tipe primitif
2 let angka = 10; // integer
3 let desimal = 0.5 // double / float
4 let kata = 'Ini kata'; // string
5
6 // tipe non primitif
7 // 0
8 const cars = ["Saab", "Volvo", "BMW"];
9 const quest = ["belajar", "suka", "myskill", "saya", "sangat", "di"];
10 // indeks ke 2 bukan data ke dua
11 // console.log(cars[2]);
12 console.log(quest[3]);
13 console.log(quest[4]);
14 console.log(quest[1]);
15 console.log(quest[0]);
16 console.log(quest[5]);
17 console.log(quest[2]);
```

The left sidebar shows the file explorer with `index.js` and `package.json`. The bottom status bar indicates the current position is `Ln 17, Col 23` with `Spaces: 2`.

The right sidebar shows the console output with the following text:

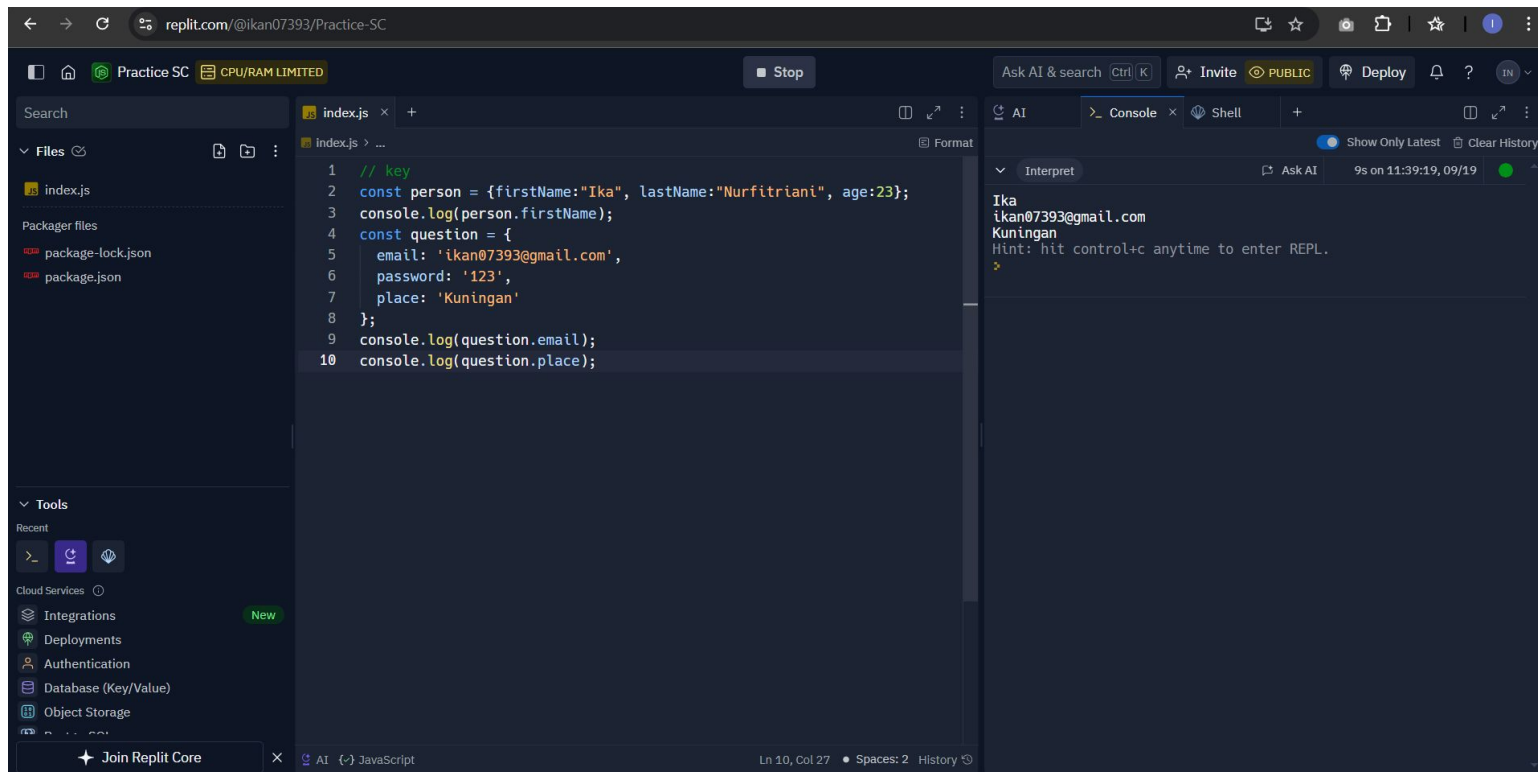
```
saya
sangat
suka
belajar
di
myskill
Hint: hit control+c anytime to enter REPL.
```

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Hasil Practice

- <https://replit.com/@zikazama/object#index.js>



The screenshot shows a Replit workspace for a file named 'index.js'. The code defines a 'person' object and a 'question' object, then logs their email and place properties. The terminal on the right shows the output of the code execution.

```
1 // key
2 const person = {firstName:"Ika", lastName:"Nurfitriani", age:23};
3 console.log(person.firstName);
4 const question = {
5   email: 'ikan07393@gmail.com',
6   password: '123',
7   place: 'Kuningan'
8 };
9 console.log(question.email);
10 console.log(question.place);
```

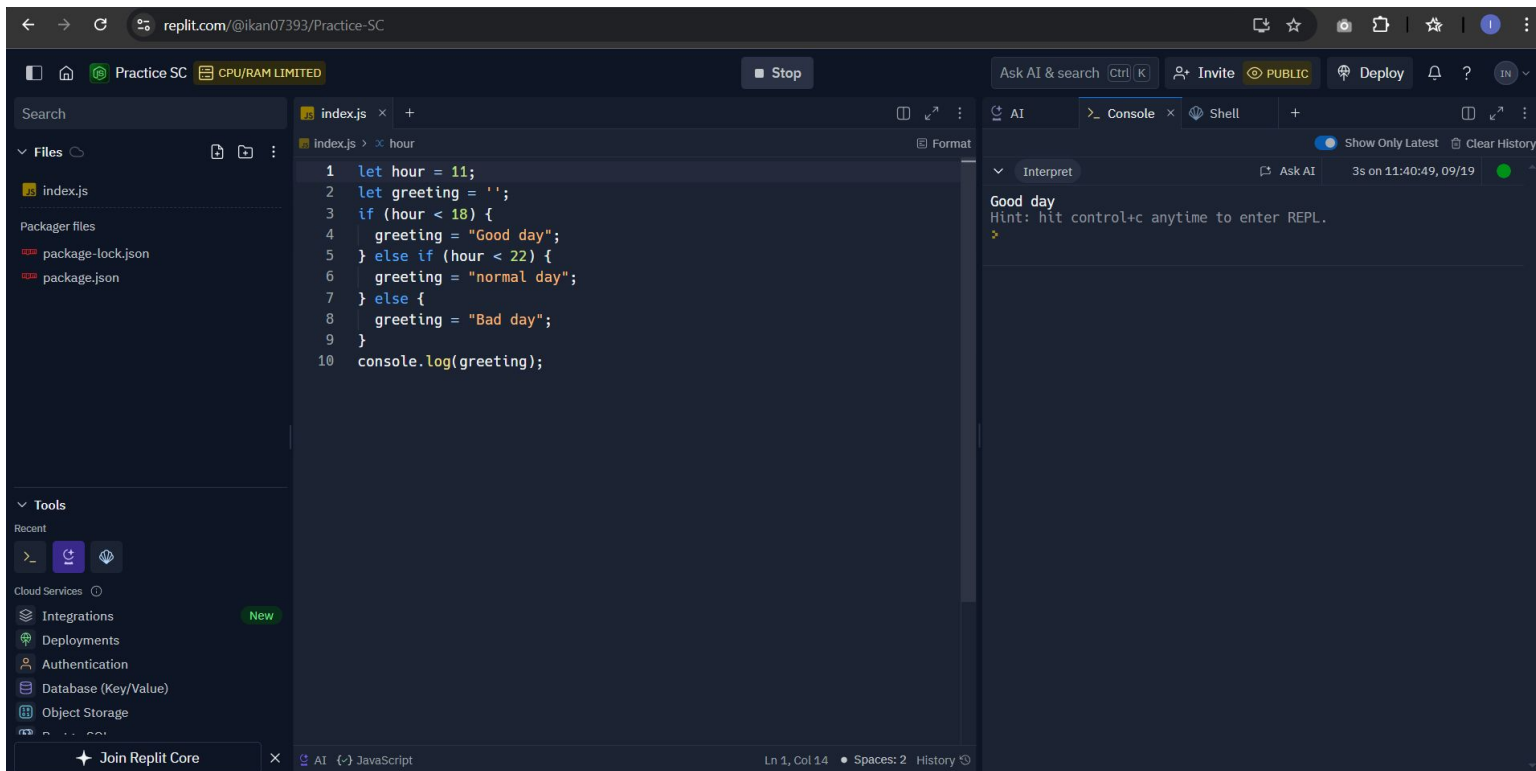
Terminal Output:

```
Ika
ikan07393@gmail.com
Kuningan
Hint: hit control+c anytime to enter REPL.
```

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Hasil Practice

- <https://replit.com/@zikazama/conditional>



The screenshot shows a Replit web IDE interface. The main editor displays a JavaScript file named `index.js` with the following code:

```
1 let hour = 11;
2 let greeting = '';
3 if (hour < 18) {
4   greeting = "Good day";
5 } else if (hour < 22) {
6   greeting = "normal day";
7 } else {
8   greeting = "Bad day";
9 }
10 console.log(greeting);
```

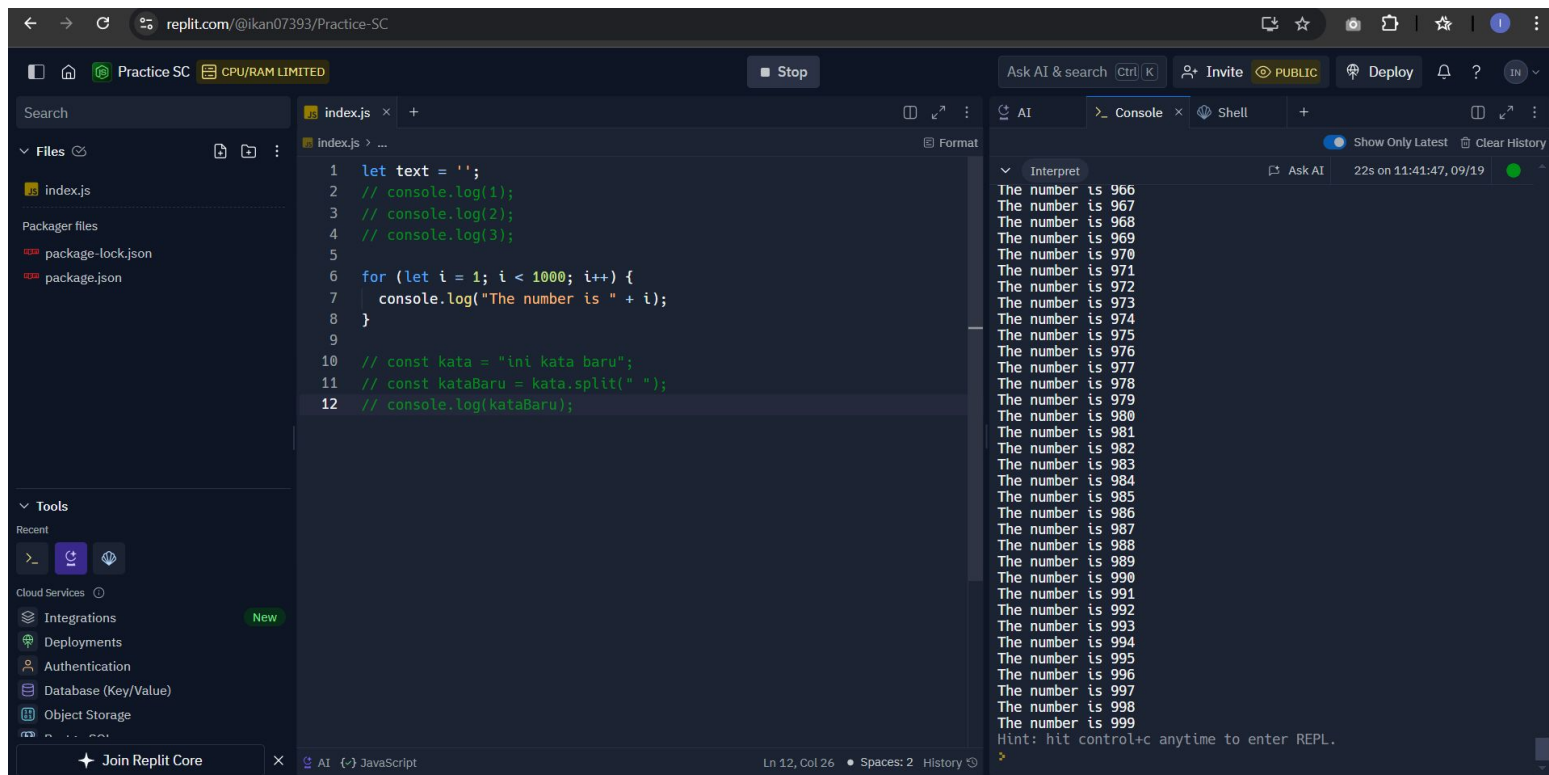
The left sidebar shows the file explorer with `index.js`, `package-lock.json`, and `package.json`. The bottom left shows the 'Tools' section with 'Recent' and 'Cloud Services' options. The right sidebar shows the 'Console' tab with the output: `Good day`. The status bar at the bottom indicates 'Ln 1, Col 14' and 'Spaces: 2'.

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Hasil Practice

- <https://replit.com/@zikazama/looping#index.js>



The screenshot shows a Replit IDE interface for a project named "Practice SC". The main editor displays a JavaScript file named "index.js" with the following code:

```
1 let text = '';
2 // console.log(1);
3 // console.log(2);
4 // console.log(3);
5
6 for (let i = 1; i < 1000; i++) {
7   console.log("The number is " + i);
8 }
9
10 // const kata = "ini kata baru";
11 // const kataBaru = kata.split(" ");
12 // console.log(kataBaru);
```

The right-hand pane shows the "Interpret" tab, displaying the output of the code execution. It shows a list of numbers from 1 to 999, each followed by "The number is". The output is truncated at the bottom with a hint: "Hint: hit control+c anytime to enter REPL."

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