

Nama : Irna Nurdiyani  
NIM : 22060016  
Prodi : Teknik Informatika / RP

---

## Latihan

### Penggunaan Deno Command line interface

```
function greet(name: string): string {  
    return `Hello, ${name}!`;  
}  
  
console.log(greet("world"));  
  
// 1  
var a = 10;  
var a = 20;  
var b = 30;  
console.log(a);  
console.log(a);  
console.log(b);  
  
b = b + 10;  
  
const c = "software";  
console.log(c);  
  
// 2  
let isFinished: boolean = false;  
console.log(isFinished, typeof isFinished); // <1>  
let price: number = 150.34;  
console.log(price, typeof price);  
let numOFEmployees: number = 25;  
console.log(numOFEmployees, typeof numOFEmployees);  
let progLang: string = 'TypeScript';  
console.log(progLang, typeof progLang);  
let university: string[] = ['UT', 'UGM', 'ITB'];  
console.log(university, typeof university);  
let employee: [number, string, boolean, number, string];  
employee = [1, 'Zaky Aditya', true, 20, 'Engineer'];  
console.log(employee, typeof employee);  
enum Color {  
    Black = 2,  
    Blue,  
    Yellow,  
    Green = 3,  
    Red = 3 * 3  
}  
console.log(Color, typeof Color);  
  
// 3  
let code: string | number;  
console.log(code, typeof code);  
  
code = 'my code';  
console.log(code, typeof code);
```

```

class Person { // <1>
  perNik: string; // <2>
  protected perNama: string;
  perAlamat!: string;
  constructor(nik: string, nama: string) { // <3>
    this.perNik = nik;
    this.perNama = nama;
  }
}

class Pegawai extends Person { // <4>
  pegNpp: string; // <5>
  private _pegJmlTanggungan!: number;
  readonly dept: string;
  gaji!: number;
  static potongPajak = 10; // <6>

  constructor(nik: string, npp: string, // <7>
    nama: string, dept: string) {
    super(nik, nama);
    this.pegNpp = npp;
    this.dept = dept;
  }

  getGaji(): number { // <8>
    return this.gaji;
  }

  setGaji(gajiBaru: number): void { // <9>
    this.gaji = gajiBaru;
  }

  getPotonganPajak(): number { // <10>
    return this.gaji * (Pegawai.potongPajak / 100);
  }

  presensi(): void { // <11>
    let dateTime = new Date();
    console.log("Presensi pada " +
      dateTime.toLocaleTimeString() +
      ' - ' + dateTime.toDateString());
  }
}

Let pakBambang = new Pegawai('nik1122', 'npp123', // <12>
  'Bambang Purnomosidi', 'IT');
console.log(pakBambang.setGaji(15750500)); // <13>
console.log(pakBambang.getGaji());
console.log(pakBambang.presensi());
console.log(pakBambang.getPotonganPajak());

```

```

interface IPerson { // <1>
  nik: string;
  nama: string;
  alamat: string;
  menikah: boolean;
}

interface IPegawai extends IPerson { // <2>
  readonly npp: string;
  jabatan: string;
  gaji: number;
  email?: string;
}

Let peg01: IPegawai = { // <3>
  nik: '012345',
  nama: 'Donal',
  alamat: 'Jl. Awan Biru 21',
  menikah: true,
  npp: '98123',
  jabatan: 'Manager SDM',
  gaji: 1500000
}

console.log(peg01.nama, peg01.jabatan); // <4>
// error: Cannot assign to 'npp' because it is a read-only property
// peg01.npp = '981234';

interface IKamusList { // <5>
  [index: string]: string;
}

Let strKamus: IKamusList = {}; // <6>
strKamus['university'] = 'universitas';
strKamus['freedom'] = 'merdeka';
console.log(strKamus['university']);

interface IPemrosesNilai { // <7>
  (kunci: number,
    nilai: string): void
}

function tambahNilai (kunci: number, nilai: string): void { // <8>
  console.log('Menambah ', kunci, nilai);
}

function perbaruiNilai (kunci: number, nilaiBaru: string): void { // <9>
  console.log('Memperbarui ', kunci, nilaiBaru);
}

Let pemrosesTambah: IPemrosesNilai = tambahNilai; // <10>
pemrosesTambah(123, 'Nilai 123');
Let pemrosesPerbarui: IPemrosesNilai = perbaruiNilai;
pemrosesPerbarui(123, 'Nilai baru 123');

```