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Latihan!!

Untuk memperdalam pemahaman Anda mengenai materi di atas, kerjakanlah latihan berikut! Selain menggunakan tsc, cobalah semua kode sumber yang ada pada kegiatan belajar ini dengan menggunakan Deno. Perhatikan baik-baik, adakah kode sumber mana yang tidak dapat dijalankan dengan menggunakan Deno? Petunjuk Jawaban Latihan Kunjungi web Deno di https://deno.land/. Install Deno sesuai petunjuk pada URL tersebut. Setelah itu, jalankan berbagai kode sumber TypeScript yang ada pada kegiatan belajar ini dengan menggunakan petunjuk di manual (https://deno.land/manual), khususnya pada Getting Started - Command line interface.

```
function greet(name: string): string {
      return Hello, ${name}!;
console.log(greet("world"));
var a = 20;
var b = 30;
console.log(a);
console.log(a);
console.log(b);
b = b + 10;
console.log(c);
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', 'I' 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 {
     Blue,
```

```
enum Color {
    Green = 3,
Red = 3 * 3
console.log(Color, typeof Color);
console.log(code, typeof code)
console.log(code, typeof code);
code = 21:
console.log(code, typeof code);
let valueNull = null
console.log(valueNull, typeof valueNull)
let valueUndefined = undefined
console.log(valueUndefined, typeof valueUndefined)
let valueAny: any;
console.log(valueAny, typeof valueAny)
valueAny = true;
console.log(valueAny, typeof valueAny)
valueAny = 42;
console.log(valueAny, typeof valueAny)
valueAny = 'TypeScript';
console.log(valueAny, typeof valueAny)
valueAny = [];
console.log(valueAny, typeof valueAny)
```

```
console.log(valueUnknown, typeof valueUnknown);
valueUnknown = null
console.log(valueUnknown, typeof valueUnknown);
valueUnknown = Math.random;
console.log(valueUnknown, typeof valueUnknown);
valueUnknown = {};
console.log(valueUnknown, typeof valueUnknown);
console.log(valueUnknown, \ typeof \ valueUnknown);
valueUnknown = 'TypeScript';
console.log(valueUnknown, typeof valueUnknown);
console.log(valueUnknown, typeof valueUnknown);
valueUnknown = true;
console.log(valueUnknown, typeof valueUnknown);
let valueUnknown: unknown;
console.log(valueAny, typeof valueAny)
console.log(valueAny, typeof valueAny)
valueAny = null;
console.log(valueAny, typeof valueAny)
console.log(valueAny, typeof valueAny)
console.log(valueAny, typeof valueAny)
```

```
console.log(valueUnknown, typeof valueUnknown);
valueUnknown = undefined;
console.log(valueUnknown, typeof valueUnknown);
let b: number = 3;
let c: number = a / b;
if (c > 5) {
console.log('lebih besar dari 5');
} else if (c > 3) {
  console.log('antar 3 - 5');
} else {
| console.log('di bawah 3');
switch (hari) {
 hariStr = 'Minggu';
case 1:
hariStr = 'Senin';
 hariStr = 'Selasa':
case 3:
 hariStr = 'Rabu';
 hariStr = 'Kamis';
```

```
console.log( nilai1 )
nilai1++;
let nilai2: number = 5;
while (nilai2 < 5) { // <2>
console.log( nilai2 )
nilai2++;
let nilai3: number = 5;
do { // <3>
   console.log( nilai3 )
   nilai3++;
} while ( nilai3 < 10)</pre>
let nilai4: number = 5;
do { // <4>
   console.log( nilai4 )
   nilai4++;
} while ( nilai4 < 5)
```

```
let pakBambang = new Pegawai('nik1122', 'npp123', // <12>
'Bambang Purnomosidi', (method) Pegawai.getGaji(): number
console.log(pakBambang.getGaji());
console.log(pakBambang.presensi());
console.log(pakBambang.getPotonganPajak());
// error:
// Property '_pegJmlTanggungan' is private and only
// accessible within class 'Pegawai'
// console.log(pakBambang._pegJmlTanggungan);
```

```
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());
```

```
S app.ts > [@] peg01
     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',
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        jabatan: 'Manager SDM',
         gaji: 15000000
        console.log(peg01.nama, peg01.jabatan); // <4>
        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
```

Tes Formatif 2

1) B

6) A

2) C

7) B

3) D

8) D

4) D

9) A

5) B

10) C