TS EXPLORING
TYPESCRIPT

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STRING

```typescript
// String
let color: string = "blue";
let fullName: string = `John Doe`;
let sentence: string = `Hello, my name is ${fullName}.`;
```

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NUMBER

```typescript
// Number
let decimal: number = 6;
let hex: number = 0xf00d;
let binary: number = 0b1010;
let octal: number = 0o744;
```

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ARRAY

```typescript
// Array
let list1: number[] = [1, 2, 3];
let list2: Array<number> = [1, 2, 3]; // Generic array type
```

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OBJECT

```typescript
// object
const newPerson: {
    firstName: string,
    middleName?: string, // optional
    lastName: string,
    isMarried: boolean,
    nationality: 'Bangladeshi'
} = {
    firstName: 'Nahidul',
    lastName: 'Islam',
    isMarried: false,
    nationality: 'Bangladeshi'
};
```

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NULL & UNDEFINED

```ts
// Null and Undefined
let u: undefined = undefined;
let n: null = null;
```

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FUNCTION

```ts
// function
function add(num1: number, num2: number):
number {
    return num1 + num2
}


add(5, 7);
```

NEVER

```typescript
// never
const throwNewError = (msg: string): never ⇒ {
    throw new Error(msg)
}
throwNewError("Ah huh! No output!")
```

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TYPE ALIAS - 1

```ts
// Type alias
type Student = {
    name: string,
    age: number,
    class: number,
    gender: string,
    address: string,
    phoneNo?: string
}
```

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TYPE ALIAS - 2

```typescript
// student 1
const student1: Student = {
    name: "Nahidul Islam",
    age: 20,
    class: 12,
    gender: "Male",
    address: "Chattogram, Bangladesh"
}
```

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TYPE ALIAS - 3

```typescript
// student 2
const student2: Student = {
    name: "Karib Shahriar",
    age: 18,
    class: 10,
    gender: "Male",
    address: "Dhaka, Bangladesh",
    phoneNo: "012457822545"
}
```

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TYPE ALIAS IN FUNCTION

```typescript
// type alias in function
type Add = (num1: number, num2: number) ⇒ number;

const add: Add = (num1, num2) ⇒ {
    return num1 + num2
}
```

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THANK YOU FOR YOUR TIME!

LET ME KNOW YOUR THAUGHTS!

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