**TypeScript**

**Data Types:**

Boolean,

Number,

String,

Object,

Function,

Undefined,

**Install TypeScript through NPM**

npm install typescript --save-dev

**To run compiler**

npx tsc file\_name.ts

**Function**

function add(num1 : number, num2 : number){

console.log(num1+num2);

}

add(10,20);

**If we Want to return an number**

function add(num1 : number, num2 : number) : number {

console.log(num1+num2);

}

add(10,20);

**Annotation in Variables**

Types of Annotation in variables are:

String,

Number,

Boolean,

Null,

Undefined

let myName: String = ‘’;

Or

let myName = ’’; //it is restricted to string because we had define string vale

**Both are same String variable we can not change to other data type**

If we not define value it automatically take **any** ad data type

If we want to declare variable it can b string or number not other than that

We have to declare as

Let myName number | string =’’;

**Array Annotation**

Let a : string[] = [];

**Object Annotation**

const acc={name:’fbxdc’,balance:0};

//automatically take string and number

If we want to define data type we use

Const acc: {name:string,balance:number} = {name:’xvfb’,balance:45};

And if we want to define property for future use we can use

Const acc: {name:string,balance:number,status?:string} = {name:’’,balance:};

For object of array we use

Let accounts : {}[]

**Interface**

interface IAccount{

name: string,

balance: number,

status?: string,

deposit?: () => void // It is a method and it return nothing

}

//use interface

const account: IAccount={

Name:’dvx’,

balance:543

}

// for array of interface

Let accc:IAccount[] ;