Access Modifiers

Types

- **private**
- **protected**
- **public**

Private

   A private property can be only accessible with in the class it will show error if it is used outside of the class

```
class Point {
    private x:number;
    y:number;
    z:number;
    constructor(x?:number, y?:number, z?:number) {
        this.x = x;
        this.y = y;
        this.z = z;
    }

    draw = ():any => {
        console.log('X:'+this.x+' Y:'+this.y+' Z:'+
    }
    drawRectangle:() => {
        draw()
```

```
14  |     drawRectangle:() => {
 1  Property 'x' is private and only accessible within class
 1  'Point'. ts(2341)
 1
    (property) Point.x: number
 1
 1  View Problem (Alt+F8)    No quick fixes available
20      shape.x = 4;
21      shape.draw()
22
```

you can also make a method also private

```
10
11      💡   private draw = ():any => {
12              console.log('X:'+this.x+' Y:'+this.y+' Z:'+
13          }
14      drawRectangle:() => {
15              draw()
16          }
17      }
18
19      let shape = new Point(1,2,3);
20      shape.draw()
```

calling the private method

```
14          drawRectangle = ():any => {
15              console.log('Drawing Rectangle');
16              this.draw()
17          }
18      }
19
20      let shape = new Poin drawRectangle(): any
21      shape.drawRectangle()
22
```

save complie and run to see the output

Shortcut for creating the constructors

For this you should have to provide the access modifier in the parameter