1. https://github.com/rvsp/typescript-oops/blob/master/Practice/Movie.md

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
       class movie
            constructor(title, studio, rating)
                this.title=title
                this.studio=studio
                if(rating==undefined||null)
                    this.rating="PG"
                else
                this.rating=rating
           getPG(arr)
            console.log(arr)
            var pgResult=[];
            for(var i=0;i<arr.length;i++)</pre>
                if(arr[i].rating=="PG")
                pgResult.push(arr[i])
            console.log(pgResult)
        }
        var film1=new movie("Casino Royale", "Eon Productions", "PG13")
        var film2=new movie("ABC Royale", "Eon Productions")
        var film3=new movie("DEF Royale", "Eon Productions", "PG13")
        var film4=new movie("GHI Royale", "Eon Productions", "PG13")
        var film5=new movie("JKL Royale","Eon Productions")
        var film6=new movie("MNO Royale", Eon Productions", PG13")
        var film7=new movie("PQR Royale", "Eon Productions", "PG")
        const array=[film1,film2,film3,film4,film5,film6,film7];
```

```
film1.getPG(array)
     </script>
     </body>
     </html>
```

OUTPUT:

```
Default levels ▼
   ▼ (7) [movie, movie, movie, movie, movie, movie] i
     ▶ 0: movie {title: 'Casino Royale', studio: 'Eon Productions', rating: 'PG13'}
     ▶ 1: movie {title: 'ABC Royale', studio: 'Eon Productions', rating: 'PG'}
     ▶ 2: movie {title: 'DEF Royale', studio: 'Eon Productions', rating: 'PG13'}
     ▶ 3: movie {title: 'GHI Royale', studio: 'Eon Productions', rating: 'PG13'}
     ▶ 4: movie {title: 'JKL Royale', studio: 'Eon Productions', rating: 'PG'}
     ▶ 5: movie {title: 'MNO Royale', studio: 'Eon Productions', rating: 'PG13'}
     ▶ 6: movie {title: 'PQR Royale', studio: 'Eon Productions', rating: 'PG'}
       length: 7
     ▶ [[Prototype]]: Array(0)
   ▼ (3) [movie, movie, movie] [i]
     ▶ 0: movie {title: 'ABC Royale', studio: 'Eon Productions', rating: 'PG'}
     ▶ 1: movie {title: 'JKL Royale', studio: 'Eon Productions', rating: 'PG'}
     ▶ 2: movie {title: 'PQR Royale', studio: 'Eon Productions', rating: 'PG'}
       length: 3
     ▶ [[Prototype]]: Array(0)
>
```

2. https://github.com/rvsp/typescript-oops/blob/master/Practice/class-circle.md

```
getRadius() {
        return this.radius;
    };
    setRadius(radius) {
        this.radius = radius;
    };
    getColor() {
        return this.color;
    };
    setColor(color) {
        this.color = color;
    };
    toString() {
        return "Radius: " + this.radius + " Color: " + this.color;
    };
    getArea() {
        return (this.radius * (Math.PI) * this.radius);
    };
    getCircumference() {
        return (2 * (Math.PI)* this.radius);
   };
   // area=pi*r*r
    //circum=2*pi*r
var c1 = new Circle();
console.log("Constructor with no params: " + c1.toString());
var c2 = new Circle(3.5);
console.log("Constructor with one param: " + c2.toString());
var c3 = new Circle(2.2, 'Yellow');
console.log("Constructor with two param: " + c3.toString());
console.log("getRadius: " + c3.getRadius());
c3.setRadius(3.3);
console.log("Radius value after setRadius: " + c3.getRadius());
console.log("getColor: " + c3.getColor());
c3.setColor("Blue");
console.log("Color Value after setColor: " + c3.getColor());
console.log(c3.toString());
console.log("Area: " + c3.getArea().toFixed(2));
console.log("Circumference: " + c3.getCircumference().toFixed(2));
    </script>
</body>
</html>
```

OUTPUT:

```
Constructor with no params: Radius: 1 Color: Red

Constructor with one param: Radius: 3.5 Color: Red

Constructor with two param: Radius: 2.2 Color: Yellow
getRadius: 2.2

Radius value after setRadius: 3.3
getColor: Yellow

Color Value after setColor: Blue

Radius: 3.3 Color: Blue

Area: 34.21

Circumference: 20.73
```

3. Write a "person" class to hold all the details.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        class person{
            constructor(name, age, phone, gender, place)
                this.name=name;
                this.age=age;
                this.phone=phone;
                this.gender=gender;
                this.place=place;
        var s1=new person("rekha",25,4587787878,"female","karnataka");
        console.log(s1);
        let{name,age,phone,gender}=s1
        console.log(`${name} ${age}
                                         ${phone}
                                                     ${gender}`)
    </script>
</body>
</html>
```

OUTPUT:

4. write a class to calculate the Uber price.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
<body>
    <script>
        class uber{
            constructor(km)
                this.km=km
                this.price=km*3
                console.log(this.km,this.price)
            getPrice()
                console.log(`Ride cost is ${this.price}`)
            applyDiscount()
                console.log("Discount calculation")
                let discount=(25/this.price)*100;
                let priceAfterDiscount=this.price-discount
                console.log(`As a privilege customer, you got discount and
price after discount is RS. ${priceAfterDiscount.toFixed()}`);
        var ride=new uber(30);
        ride.getPrice()
        ride.applyDiscount()
    </script>
</body>
```

OUTPUT:

