JavaScript - Day -8: OOP

**TASKS**

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

**Code:**

class Movie{

constructor(t,s,r){

this.title=t;

this.studio=s;

if(!r){

this.rating="PG";

}

else{

this.rating=r;

}

}

getPG(mov){

this.rating="PG";

this.movie=mov;

return mov;

}

}

var mov=["Harry Potter", "Anabelle", "Encanto"];

var s1= new Movie(mov,"Disney","PG");

console.log(s1);

var s2= new Movie("Casino Royale","Eon Productions","PG13");

console.log(s2.getPG(mov));

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

**Code:**

class Circle{

constructor(rad,col){

this.radius=rad;

this.colour=col;

}

getRadius(){

return this.radius;

}

setRadius(r){

this.radius=r;

}

getColour(){

return this.colour;

}

setColour(c){

this.colour=c;

}

tostring(){

this.colour.toString();

return this.colour;

}

getArea(){

var area=2\*(this.radius)\*(this.radius);

return area;

}

getCircumference(){

var cir=2\*22.7\*this.radius;

return cir;

}

}

var s1=new Circle();

var s2=new Circle(1.0);

var s3=new Circle(1.0,"red");

1. Write a “person” class to hold all the details.

**Code:**

class Person{

constructor(name, age, height, gender, nationality, profession){

this.name=name;

this.age=age;

this.height=height;

this.gender=gender;

this.nationality=nationality

this.profession=profession;

}

}

var s1 = new Person("Sandy",32,151,"Male","American","Doctor");

console.log(s1);

1. write a class to calculate uber price.

**Code:**

class Uber{

constructor(distance, car, time, city){

this.distance=distance;

this.car=car;

this.time=time;

this.city=city;

}

priceEstimator(){

var price;

if(this.distance<=10){

price=10;

}

else{

price=this.distance\*5;

}

if(this.car=="UberGo"){

price=price\*1.5;

}

else if(this.car=="UberAuto"){

price=price\*1.2;

}

if(this.time=="Peak"){

price=price\*2;

}

if(this.city=="Urban"){

price=price\*1.8;

}

return price;

}

}

var s1 = new Uber(11,"UberGo","Peak","Urban");

console.log(s1.priceEstimator());