**Day 6 - OOPS Task**

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

class Movie

{

constructor(title,studio,rating="PG")

{

this.title=title;

this.studio=studio;

this.rating=rating;

}

}

var instance\_Class=new Movie("Casino Royale","Eon Productions","PG­13")

console.log(instance\_Class)

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

class Circle

{

constructor(Radius,Colour)

{

this.radius=1.0;

this.colour="Red";

}

getRadius()

{

return this.radius;

}

setRadius(radius)

{

this.radius=radius;

}

getColour()

{

return this.colour;

}

setColour(colour)

{

this.colour=colour;

}

toString()

{

return `RADIUS ${this.radius} COLOUR ${this.colour}`

}

getArea(){

return (2\*(Math.PI)\*this.radius)

}

getCircumference(){

return (2\*this.radius)

}

}

let c1=new Circle();

let c2=new Circle(3.6);

let c3 = new Circle(2.2, 'Yellow');

console.log(c1.toString())

console.log(`Area of a Circle is ${c1.getArea()}`)

console.log(`Circumference of a Circle is ${c1.getCircumference()}`)

console.log("getRadius: "+c2.getRadius())

c2.setRadius(3.3)

console.log("Radius value after setRadius: " +c2.getRadius())

console.log("getColour: "+c3.getColour())

c3.setColour("Orange")

console.log("Radius value after setRadius: " +c3.getColour())

**Output:**

[Running] node "d:\Indira\_Arul\GitHub\_Practice\First\_Demo\Task.js"

RADIUS 1 COLOUR Red

Area of a Circle is 6.283185307179586

Circumference of a Circle is 2

getRadius: 1

Radius value after setRadius: 3.3

getColour: Red

Radius value after setRadius: Orange

[Done] exited with code=0 in 0.216 seconds

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

class Person {

constructor(name, age, gender, email, mobile) {

this.name = name;

this.age = age;

this.gender = gender;

this.email = email;

this.mobile = mobile;

}

}

var details\_1 = new Person("Indira", 30, "Female", "indira@gmail.com", 8656555665);

var details\_2 = new Person("Deepa", 29, "Female", "deepa@gmail.com", 9965552222);

console.log(`Details\_1 --> Name: ${details\_1.name}, Age: ${details\_1.age}, Gender: ${details\_1.gender}, E-mail: ${details\_1.email}, Mobile: ${details\_1.mobile}`);

console.log(`Detials\_2 --> Name: ${details\_2.name}, Age: ${details\_2.age}, Gender: ${details\_2.gender}, E-mail: ${details\_2.email}, Mobile: ${details\_2.mobile}`);

**Output:**

**[Running] node "d:\Indira\_Arul\GitHub\_Practice\First\_Demo\Task.js"**

**Details\_1 --> Name: Indira, Age: 30, Gender: Female, E-mail: indira@gmail.com, Mobile: 8656555665**

**Detials\_2 --> Name: Deepa, Age: 29, Gender: Female, E-mail: deepa@gmail.com, Mobile: 9965552222**

**[Done] exited with code=0 in 0.229 seconds**

1. **write a class to calculate the uber price.**

class Uber

{

constructor(customer\_Name,pick\_up\_location, destination)

{

this.customer\_Name=customer\_Name;

this.pick\_up\_location=pick\_up\_location;

this.destination=destination;

}

calculate\_Km(pick\_up\_location,destination)

{

var km;

var fare=12;

var price;

if(pick\_up\_location=="Perambur" && destination=="CMBT" )

{

km=10;

price=km\*fare;

return price;

}

else if(pick\_up\_location=="Perambur" && destination=="Central")

{

km=5;

price=km\*fare;

return price;

}

else

{

price=250;

return price;

}

}

}

var ride=new Uber("Indira","Perambur","CMBT");

console.log(`Welcome ${ride.customer\_Name}, Your Ride fare is : ${ride.calculate\_Km(ride.pick\_up\_location,ride.destination)}`)

**Output:**

**[Running] node "d:\Indira\_Arul\GitHub\_Practice\First\_Demo\Task.js"**

**Welcome Indira, Your Ride fare is : 120**

**[Done] exited with code=0 in 0.222 seconds**