JavaScript Assignment 5

1. Write a JavaScript program to get the volume of a Cylinder, Sphere and Cone with four decimal places using objects and classes.

Create classes for volumes for each geometric shape which returns the output using the getVolume() method. eg- to get volume of cylinder-let obj= new Cylinder(radius, height); obj.getVolume();

//Program to get Volume of a Cylinder, Sphere and Cone

```
function Cylinder(radius, height) {
  this.radius = radius;
  this.height = height;
  this.getVolume = function () {
     let volume = Math.PI * Math.pow(this.radius,2) * this.height;
     return volume.toFixed(4);
  }
};
function Sphere(radius) {
  this.radius = radius;
  this.getVolume = function () {
     let volume = Math.PI * (4/3) * Math.pow(this.radius,3);
     return volume.toFixed(4);
  }
};
function Cone(radius, height) {
  this.radius = radius;
  this.height = height;
  this.getVolume = function () {
     let volume = (Math.PI * Math.pow(this.radius,2) * this.height)/3;
     return volume.toFixed(4);
  }
};
```

//Checking

```
let cylinder = new Cylinder(5,10);
let sphere = new Sphere(10);
let cone = new Cone(5,10);
console.log(cylinder.getVolume())
console.log(sphere.getVolume())
console.log(cone.getVolume())
```