1. In this task we will have a definition for a Shape class. It has three properties: name, sides, and sideLength. This class only models shapes for which all sides are the same length, like a square or an equilateral triangle.

We'd like you to:

* Add a constructor to this class. The constructor takes arguments for the name, sides, and sideLength properties, and initializes them.
* Add a new method calcPerimeter() method to the class, which calculates its perimeter (the length of the shape's outer edge) and logs the result to the console.
* Create a new instance of the Shape class called square. Give it a name of square and a sideLength of 5.
* Call your calcPerimeter() method on the instance, to see whether it logs the calculation result to the browser's console as expected.
* Create a new instance of Shape called triangle, with a name of triangle and a sideLength of 3.
* Call triangle.calcPerimeter() to check that it works OK.

2.Create a Employee class having properties id,name,desg,dept,isMarried ,joiningDate. Create a method called showDetails() that will show details of the employee. Create another method named showAllEmployeeDetails() that will show details of all the objects(note. Create 5 objects here) in tabular format like. Create a swipeIn function(Note: here use object destructuring ) to show id,name,dept properties only.

ID Name Dept Desg isMarried joiningDate

1. John IT ………………………
2. FOO HR
3. BAR IT

3. Create a class A having constructor taking 2 number arguments. Create a class B that is extending class A. Class B constructor is having 3 number arguments. Create a class C that is inherited from(extends) class B. Now create one object of class C, so that all the class constructor should get called.(Note: Every class constructor should have a console.log method)

4. Create a Book class and a Author class.

Author class constructor will take authorid,name,contactno,address as argument.

Book class constructor will take bookid,bookname,authorids(note:this will be an array),publicationname,publisheddate as argument.

Create method in book class: showDetails()

It will give all the details of the book and its author details.

q-5: All the examples of String and Date object method practiced from w3schools.com.( https://www.w3schools.com/jsref/jsref\_obj\_string.asp)