1) Create a user defined local module calc.js that exposes the following functions: add(a,b), subtract(a,b), multiply(a,b), divide(a,b), square(a), sum(a,b,c...)

Create a client application that invokes each of these methods

- 2) Create a module by name mymodule.js to store three functions
  - factorial to find factorial of a number.
  - myprime Check prime number
  - printable to display table of a number

display a form to accept a number from user. If number is < 5 then call factorial function if the number is > 5 and < 10 then call printable function otherwise call myprime

- 3) Create 3 user defined modules that deal with shapes: circle.js, rectangle.js, triangle.js
  - Circle.js has functions like: calcArea(radius), calcCircumference(radius), calcDiameter(radius)
  - Rectangle.js calcArea(length, breadth), calcPerimeter(length, breadth)
  - Triangle.js isEquilateral(side1, side2, side3), calcPerimeter()

Create a client application that invokes each of these methods

- 4) Write a Node program that prints all the numbers between 1 and 100, each on a separate line. A few caveats:
- o if the number is divisible by 3, print "fizz"
- o if the number is divisible by 5, print "buzz"
- o if the number is divisible by both 3 and 5, print "fizzbuzz"
- 5) Create a file mydata.txt, myfile.data read contents of both files parallelly and display number of words in each file .(use asynchronous api).
- 6) Write a program to run node server at port 5000. Display Welcome to nodejs msg on the screen once receives the request.
- 7) Create a simple text file. Now use node file handling to read each line from text file, prefix line with a number and display.
- 8) Refer to assignment in JavaScript lab assignment. Accept radius from user. On submission, Node must calculate area and circumference of circle and send the calculated data back. Use the circle.js module we created earlier
- 9) Develop a login app. The login.html must accept username and password and submit to node. At server side, node must first check if password is minimum 6 characters. Create a Javascript array

r	-	na separated values. Enter 3 user details. Middleware ole in a Javascript array. If yes, send success.html,
•	Use Node and Express to write a simple web ap not and display message accordingly.	plication that checks whether a number is a prime or