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| **Suryadatta Education Foundation's** |
| **Suryadatta Institutes of Management , Pune** |

MCA-SEM-II

**Subject:- IT-23-Advanced Internet Technologies journal**

#### List of Practicals

1. Program to implement Audio and Video features for your web page.
2. Program to design form using HTML5 elements, attributes and Semantics.
3. Programs using Canvas and SVG.
4. Programs to demonstrate external and internal styles in the web page using font, text, background, borders, opacity and other CSS 3 properties.
5. Implement Transformation using Translation, Rotation and Scaling in your web page.
6. Program to show current date and time using user defined module
7. Program using built-in modules to split the query string into readable parts.
8. Program using NPM which will convert entered string into either case
9. Write a program to create a calculator using Node JS. (Install and configure Node JS and Server)
10. Write Program for Form validation in Angular.
11. Program to demonstrate the ngif, ngfor, ngswitch statements.
12. Create angular project which will demonstrate the usage of component directive, structural directive and attribute directives
13. Create angular project which has HTML template and handle the click event on click of the button (Installation of Angular and Bootstrap 4 CSS Framework)
14. Program for basic operations, array and user interface handling.
15. Program to demonstrate session management using various techniques.
16. Program to perform the CRUD Operations using PHP Script.

**Theory Assignment-Unit-3 – NodeJS**

Q1. Explain NodeJs and how it works ?

Q2. What is REPL? Explain the features of REPL.

Q3. Explain NPM with examples ?

Q4. How modules work in NPM ?

Q5. Explain how to create Webserver in NodeJS ?

Q6. What are Events in NodeJS . Explain with the help of an example

**Theory Assignment No-4 Angular**

1. What is AngularJS?
2. What are directives in AngularJS?
3. What are expressions in AngularJS?
4. What is filter in AngularJS? Exaplain any one with example.
5. What is $scope and “$rootScope” in AngularJS?
6. What is SPA (Single page application) in AngularJS?
7. How to implement routing in AngularJS?
8. How many types of data binding in AngularJS?
9. Explain Module And Controller In AngularJS.
10. What are the services in AngularJS?
11. Write a short note on
    1. Dependency injection
    2. Components
    3. Typescript