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## dat Anignment-6

to 03. js for any application domain

+ To explore visualization tool for big data + To learn D3. js for big data visualization

Problem statement: Big data analytics using big data visualization tool D3. js for application domain

Theory:

what is D3. is

D3.js is a javascript library for producing dynamic interactive data visualizations in web browsers. It makes use of 5x6 (south scattle vector Graphical. HTML5, CSS3. It is the successorer for of carlier framework

- · Extremely flexible

  - · Easy to use & fast
  - · supports large datasets
  - · Occlarative Programming
  - · Code Rewability

  - · Wide variety of curve generating functions · Associates dato to an element or group of elements in html page

```
Varu Kalanya (PE29)
 D3.js selections: Ability to select move elements in webpage (modify lapped / remove)
  select(): select first matching element.
 setected: setect
  selectAu(): select all matching elements
  eg: <div>
         Hello!
         </div>
          de alert (d3. seletted ("div"/text());
         </script>
 Fransitions: Charging from one state to another eg. d3-select ("body" transition (). style (\subsection backgound-color", "lightblue");
 5VG Fransformations:
i) Translate (tr, ty): along resp axes
ii) Rotate ((r, Cy): &g rotate (60)

(iii) Scale (Sx, Sy): &g Scale (10)

(iv) Skew (Sx, Sy): &g Skew (10)

&g: SVG rectangle with translate
      <body>
       < sug width = "300" height = "300%.">
< rect x = "20%."
                          y = "20"
                          width = "60"
                          height = "60"
                         fill = "green"
                         transform = translate (3030) >
              X/rect>
        4/5497
```

4/body>

Enput: Data can be loaded from various source like jason, csv files, ROBMS, NOSQL databases.

Output: Charts demonstrating all features mentioned above and all the charts mentioned in the presentation. Both Part I to Part I code to outputs

Platform: Ubanh / Windows.

Conclusion: Thus, learnt & implemented various visualizations with D3.js.

1 what is D3.js stands for

>D3 stands for Data-Driven Document

2 How D3-js identity on which elements to operate?

D3.js uses following CSS-style selectors to identify element on which to operate:

• Selection By Tag

• selection by Class Name

• selection by ID.

- · selection by ID.
- 3 Enlist Data-birding methods in D3-js

data(): Joins data to selected docs enter (): create set w/ placeholder for missing elements exit(): Removes nodes & add to exit relections datum (); Injects data to selected element without completing a join