| Date://                                             |
|-----------------------------------------------------|
|                                                     |
| es<br>ut and<br>vable                               |
| vable                                               |
| effects/                                            |
| ipe (                                               |
| (1+ap2+ data)),  (1 filter + data)),  as no * 2 g); |
|                                                     |

| Date:                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| We use pipe to chain the tap operator which just logs value of sounce observable to console.  The use filter, to filter out observable according to over requirement. |
| 4. Take > emits only the first  count values by the source observable mentioned in take operator.                                                                     |
| 5. Take Until > use for unsubscribe  observable until not getting response.  Can use for complete and destroy  observable after subscribe                             |
| 6. Take Last > emits only last count values.                                                                                                                          |
| Fo Take While > emit value 15<br>condition is true.                                                                                                                   |

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|--------------------------------------------------------------------------|
|                                                                          |
| Eg > obs = of (1,2,3,4,5,6). pipe (                                      |
| take while (val = val 23, true),                                         |
| takeLast(3)                                                              |
| take (2),                                                                |
| take Until (Subject)                                                     |
|                                                                          |
| Output -> 1,2 (take while)                                               |
| 4,5,6 (take last)                                                        |
| 1,2 (take)                                                               |
|                                                                          |
|                                                                          |
| 8. retry When > netry with condition.                                    |
| Seconds, not instantly then use setry when                               |
| seconds, not instantly then                                              |
| use setry when                                                           |
|                                                                          |
| Foreg - If getting 404 gerror,<br>then you should retry                  |
| then you should retry                                                    |
|                                                                          |
| From Event- handling Dom                                                 |
| exants using tanget Element                                              |
| From Event-handling Dom<br>events using tanget Element<br>and event type |
| aria J                                                                   |

| Date:/                                                                               |
|--------------------------------------------------------------------------------------|
| 10. debounce Time > delays the value emitted by source.                              |
| 11. distinct Until Changed > emits all items that we distinct                        |
| from previous items                                                                  |
| 12: Subject - Subject does not<br>return the current value of<br>subscription.       |
|                                                                                      |
| It triggers only on next (value)  call and return output.                            |
| Eg > var Subject = new Subject()'  Subject. next (1)'s  11 will not output any value |
| Subject. subscribe ( {                                                               |
| Subject. Subscribe ({  next: (v) => conse.log (v);  3)                               |
| Subjec : next (1)                                                                    |
| 11 Logs 1                                                                            |

|                                                             | Date://                                     |
|-------------------------------------------------------------|---------------------------------------------|
|                                                             |                                             |
| 13. behaviour Subject > 1t<br>current value or ini          | will return                                 |
| current value os ini                                        | tial value                                  |
| on subscription.                                            |                                             |
|                                                             | Mar I I all all all all all all all all all |
| 14. asyncSubject > emits                                    | last value                                  |
| on completion                                               |                                             |
| (27)                                                        |                                             |
| 15. Concat ⇒ join multi<br>and emits one by                 | ple Observable                              |
| and emits one by                                            | one                                         |
|                                                             |                                             |
| Eg > Concat (                                               | 1 1                                         |
| of (1,2,3) of                                               | (4)5)6)                                     |
| subscribe (consc                                            | le./09)                                     |
| 11 1,2,3,4,5,6                                              |                                             |
| ., (),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                    |                                             |
| 16. Shane Reply - use                                       | unith async,                                |
| 16. Share Reply > use avoid duplicate reques                | t                                           |
|                                                             |                                             |
| 17. Zip > pass 2 obse                                       | grables                                     |
| 17. Zip => pass 2 observing zip. when will be detected in a | change                                      |
| will be detected in o                                       | observabes_                                 |
| then only subscript                                         | tion                                        |
| then only subscript                                         | Value                                       |
|                                                             |                                             |

| Date: / /                                                                                           |
|-----------------------------------------------------------------------------------------------------|
| 1)ce Case - lathon Man                                                                              |
| Several http sieguests at some                                                                      |
| time and need to complete                                                                           |
| Several http siequests at some<br>time and need to complete<br>all before emitting value.           |
| Fg > Const source Dne = Of ('Deepa');                                                               |
| Fg > Const sowice Dne = Of ('Deepa');<br>const sowice Two = of ('Jyoti');                           |
| const eg = zip (                                                                                    |
| SOUMEDNE                                                                                            |
| Source Two pipe (delag (1000))                                                                      |
|                                                                                                     |
| const subscribe = eg. subscribe( val => console.log (val)).                                         |
| Voll = (UTSOTE TO)                                                                                  |
| 18. Fork Join > Mait for all observables                                                            |
| to complete and then emit an army                                                                   |
| 18. Fork Join > Mait for all observables to complete and then emit an array of last emitted values. |
| Join multiple Observable to a                                                                       |
| Join multiple Observable to a Single one.                                                           |
| It any observable came through error gork Join will not getwin any value                            |
| error g fork Join will not                                                                          |
| setwin Vany value                                                                                   |

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|---------------------------------------------------------------------------------------------------------|
| Flattening Operators                                                                                    |
| while using multiple observables<br>into nested Subscription                                            |
| 1) Merge Map -> Simultaneously executes observables.                                                    |
| * Sequere of execution not quaranteed<br>* If any observable throw error,<br>It will emit other values. |
| 2) Concat Map > does not<br>Subscribe to next observable<br>until previous completes                    |
| * Execute one by one<br>* sequest of execution quaranteed.                                              |
| 3) exhaust Map > map to inner observable and ignore other until observable complete                     |
| 4) Switch Map > try to resubscribe observable by concelling previous                                    |