- CI) Input phase & Here we have record reades that translates each record in on 1/p file and sends the bassed data to the mapper in the form of key value pairs
 - (2) Mop- Mop? s wer defined function, which, take a school of socies key value pair and processes each one of them to generate zero or more key value pairs
 - (3) Intermediate key: The key value pains generated by
 the mapper are known as intermediate
 keys
- (4) Combiner: Combiner is a type of local reducer that
 groups similar data from the map phase
 into identifiable sets It takes the intermediate Leys
 from the mapper as if and applies a well defined
 added to aggregate the values in a small scape of one
 mapper
- (6) Shuffle and sorts to the reducer task state with the shuffle and sort stop: It downloads the grouped key-values pairs onto the seral

machine, unher the recluser is sunning

(6) Reducer: The reducer takes the grouped key-values paved data as input and suns a reducer function on each one of them. Here, the date

of ways, and it requires a wide honge of processing and