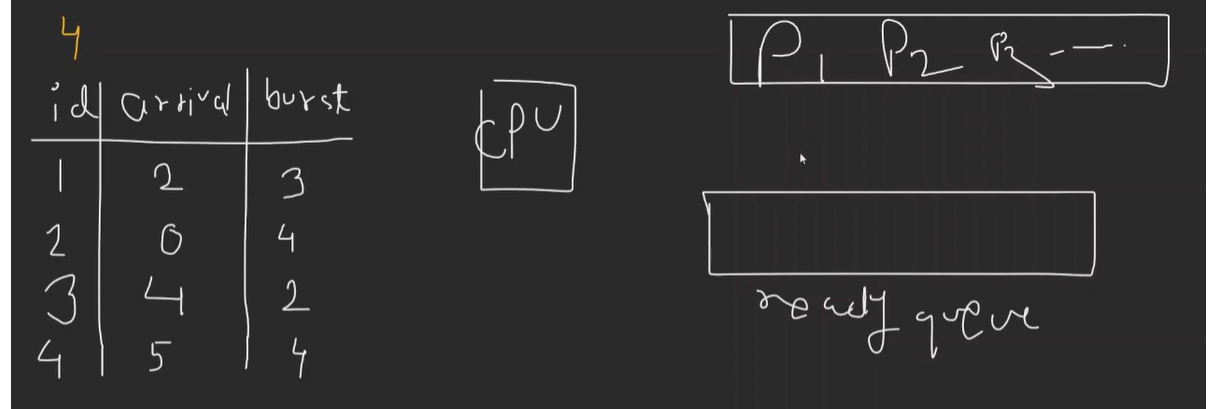
Logic of sjf:



See here we don’t know which will be executed first. See here whichever job has lowest burst time will be executed first. See burst time is execution time.

A picture containing text

Description automatically generated

See here min burst time is 3 id .but the arrival time is 4 and hence we will not wait for the arrival time we will take another .here hence we will take which has first come.

A picture containing text, night sky

Description automatically generated

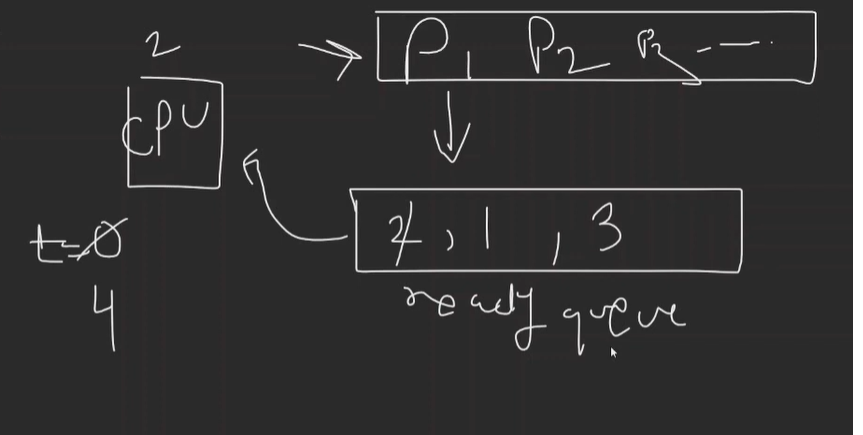
But if arrival time is same then we will take which has the min burst time.

A picture containing diagram

Description automatically generated

We will dry run according to our logic.

See at t=0 we have id 2 coming. Here burst time is 4. hence we need to take all the id whose arrival time is 4 or less in ready queue. Hence 1 and 3 will be taken.



Now 2 will be released.1 and 3 take min burst time and use in time. Here burst time is 2 and hence 4+2 that is 6 will be taken. Hence id 4 will be taken and hence use the same with min burst time in the queue and release earlier.

A picture containing text, blackboard

Description automatically generated

Here 2 3 1 4 will be the order our process been executed.

Code:



Text

Description automatically generated

See here in v[0] we have id,v[1] has arrival time and v[2] has burst time.

Text

Description automatically generated

See sort first by arrival time. If arrival time same take burst time min. if both same, then take id.