**EXPERIMENT 6 :JOB SEQUENCING WITH DEADLINES**

**AIM: Consider Five Jobs with following deadlines and profits**

**Job ID Deadline Profit**

**a 2 100**

**b 1 19**

**c 2 27**

**d 1 25**

**e 3 15**

**Determine the sequence of job so that maximum profit can be earned**

**ALGORITHM FLOW:**

1) Sort all jobs in decreasing order of profit.   
2) Iterate on jobs in decreasing order of profit. For each job , do the

following:   
 a) Find a time slot i, such that slot is empty and i < deadline

and i is greatest .

Put the job in this slot and mark this slot filled.   
 b) If no such i exists, then ignore the job.

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**Time complexity: O(n2).**