Short-Term Scheduling

WIT-Wigets, Inc. needs to assign a set of jobs through a set of machines.
The following table shows the hours required for each machine

Job	Machine			
	a	b	c	d
1	7	9	8	10
2	10	9	7	6
3	11	5	9	6
4	9	11	5	8

determine the assignment of jobs to machine, and total cost for production.

Six jobs need to be processed through a two-step operation. Processing hours are below

Job	operation #1	operation #2
a	10	5
b	7	4
c	5	7
d	3	8
e	2	6
f	4	3

Determine the best sequence, and determine the minimum required time
Provide a Gantt chart showing the slack time and machine utilization