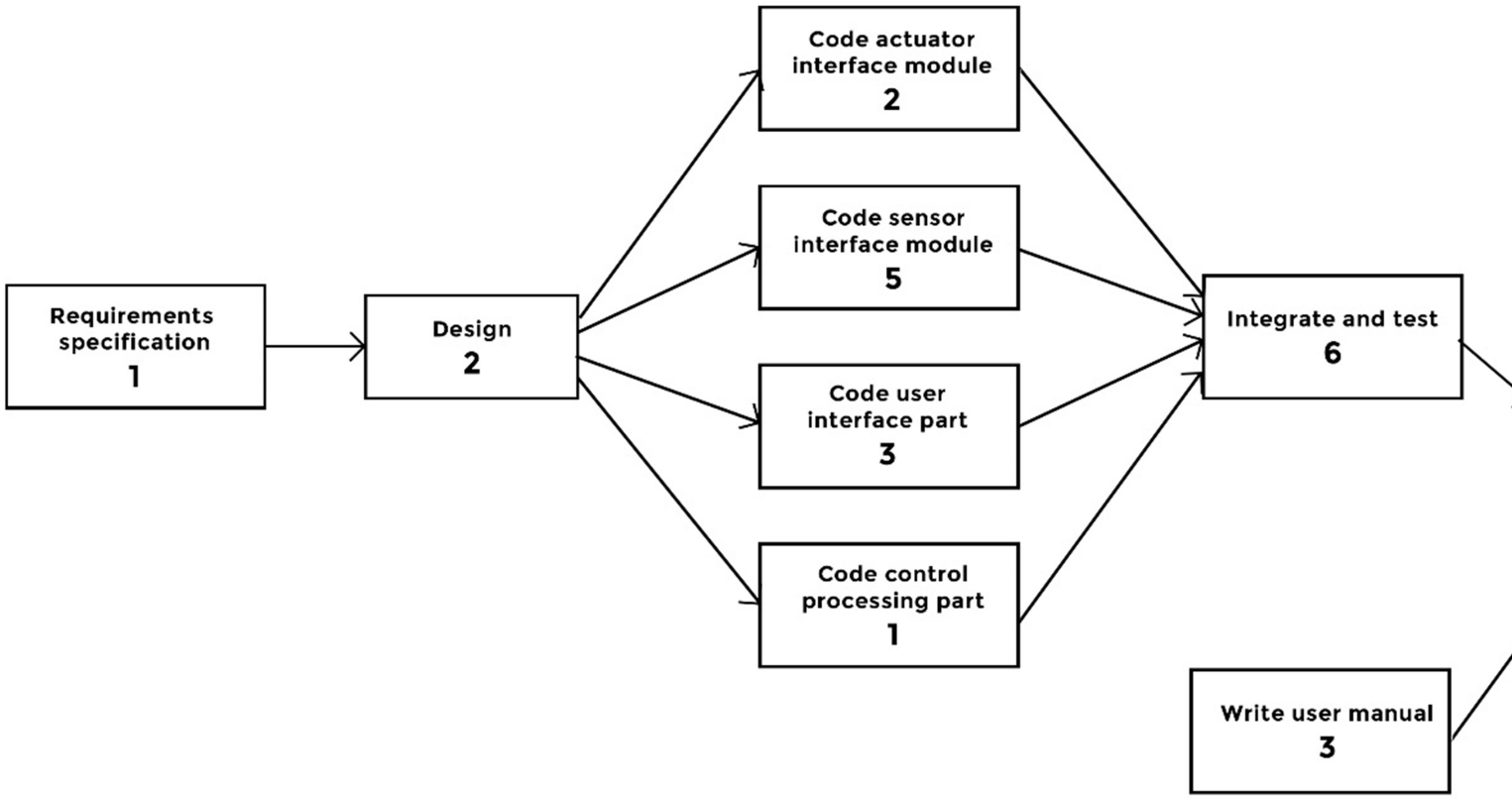
Software Engineering

Lab 4 | Sudhansu Sekhar Swain | 118CS0689



Q1)

(a) The activity network representation of the task is shown above :

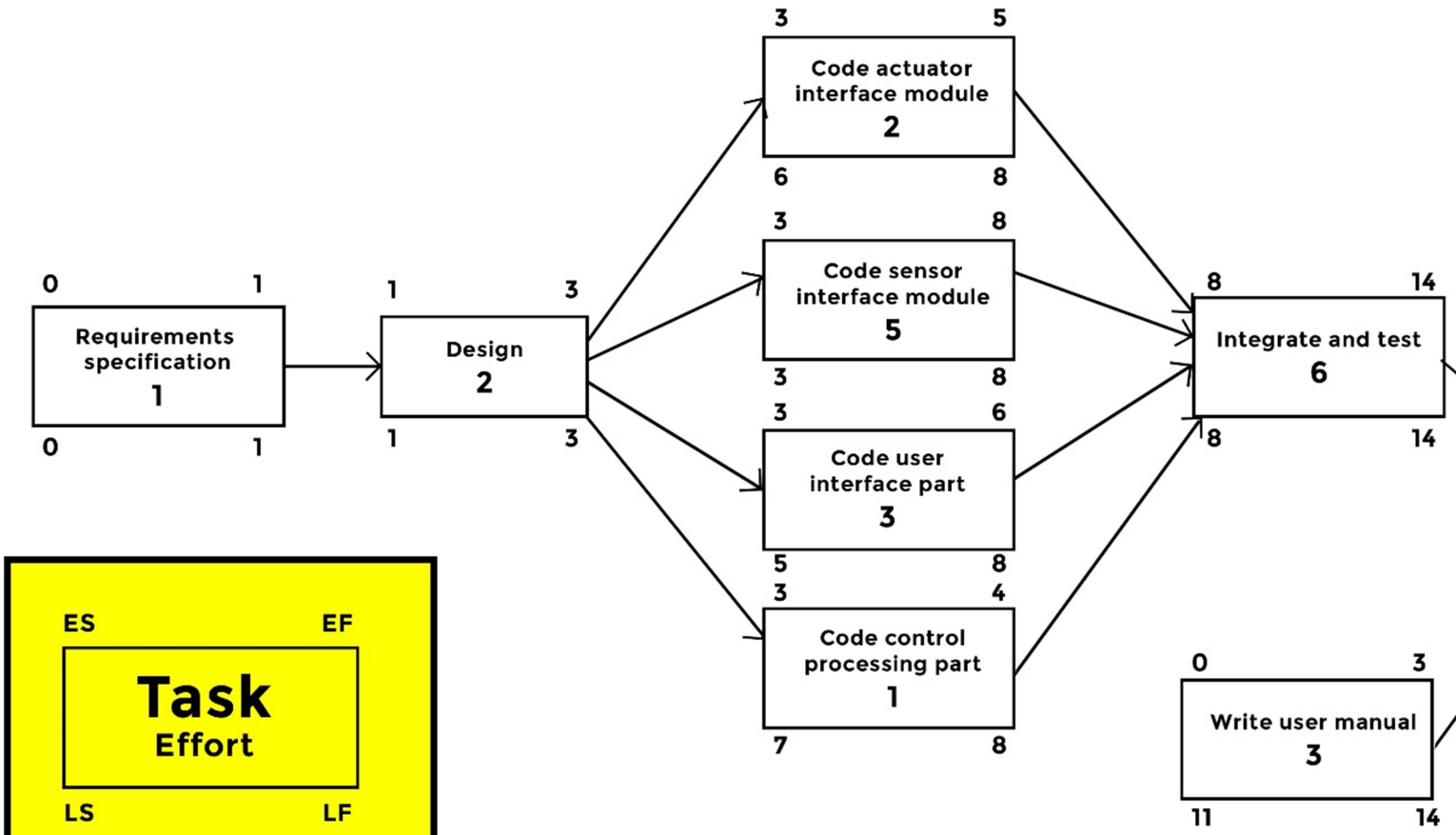
(b) ES and EF for every task

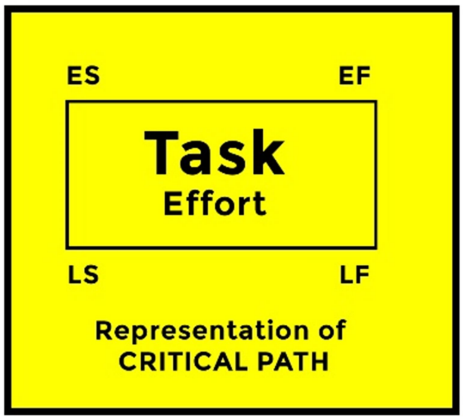
Task	Effort	ES	EF
Requirements specification	1	0	1
Design	2	1	3
Code actuator interface module	2	3	5
Code sensor interface module	5	3	8
Code user interface part	3	3	6
Code control processing part	1	3	4
Integrate and test	6	8	14
Write user manual	3	0	3

(c) LS and LF for every task

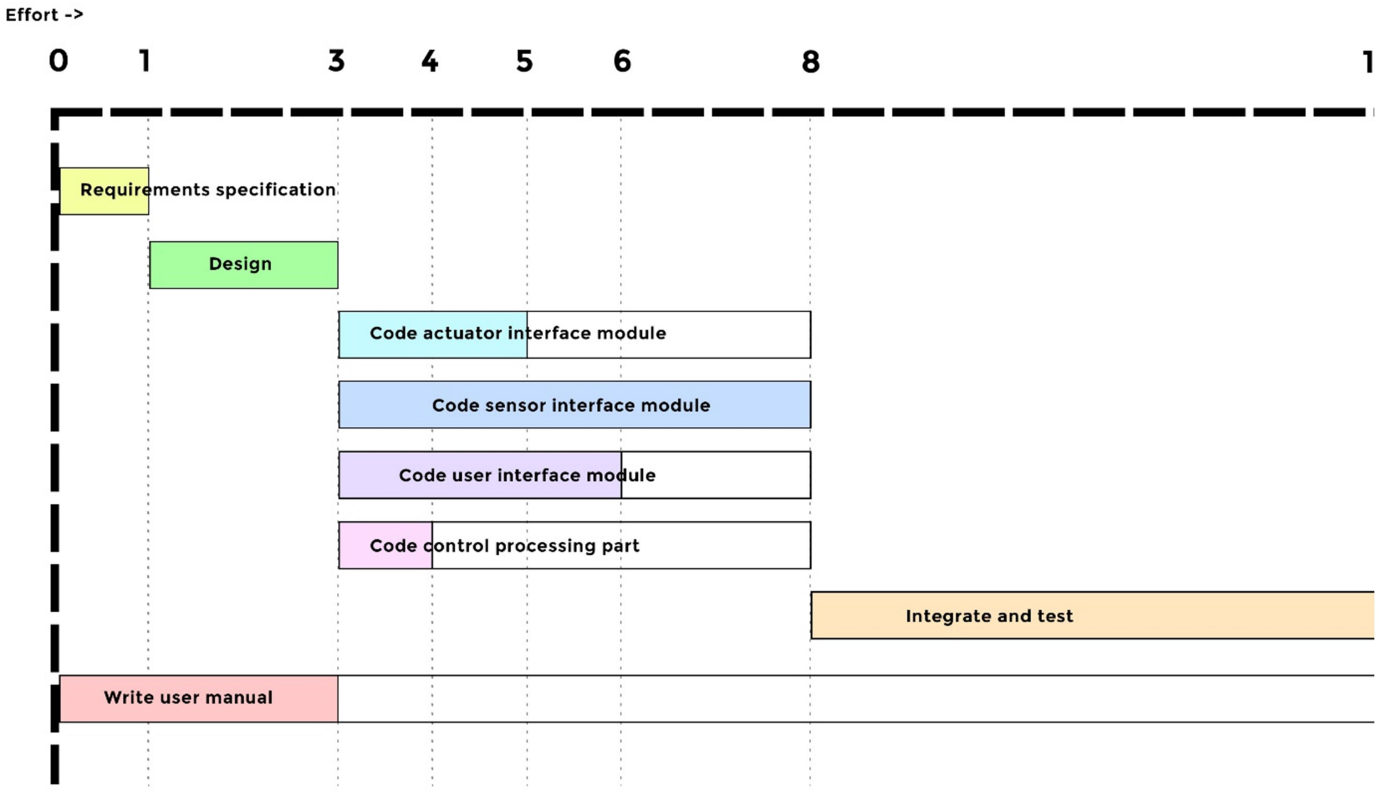
Task	Effort	LS	LF
Requirements specification	1	0	1
Design	2	1	3
Code actuator interface module	2	6	8
Code sensor interface module	5	3	8
Code user interface part	3	5	8
Code control processing part	1	7	8
Integrate and test	6	8	14
Write user manual	3	11	14

(d) Critical path using CPM


0
1
Requirements specification
1
0
1
1
3
Design
2
1
3
3
5
Code actuator interface module
2
6
8
3
8
Code sensor interface module
5
3
8
3
6
Code user interface part
3
5
8
3
4
Code control processing part
1
7
8
8
14
Integrate and test
6
8
14
0
3
Write user manual
3
11
14


ES
EF
Task
Effort
LS
LF
Representation of
CRITICAL PATH

(e) Gantt chart:-



Gantt chart representations