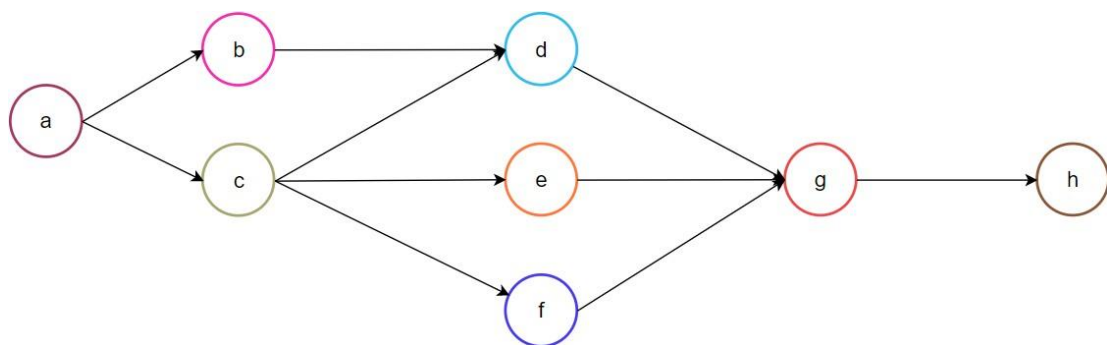
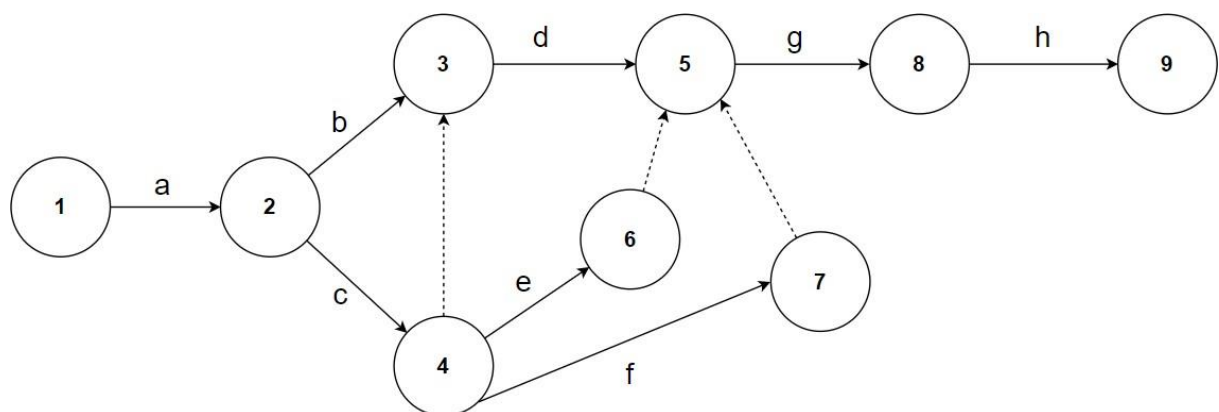


Assignment 1 Solution:**Question NO. 1 Solutions:**

→ **AoN Network:**

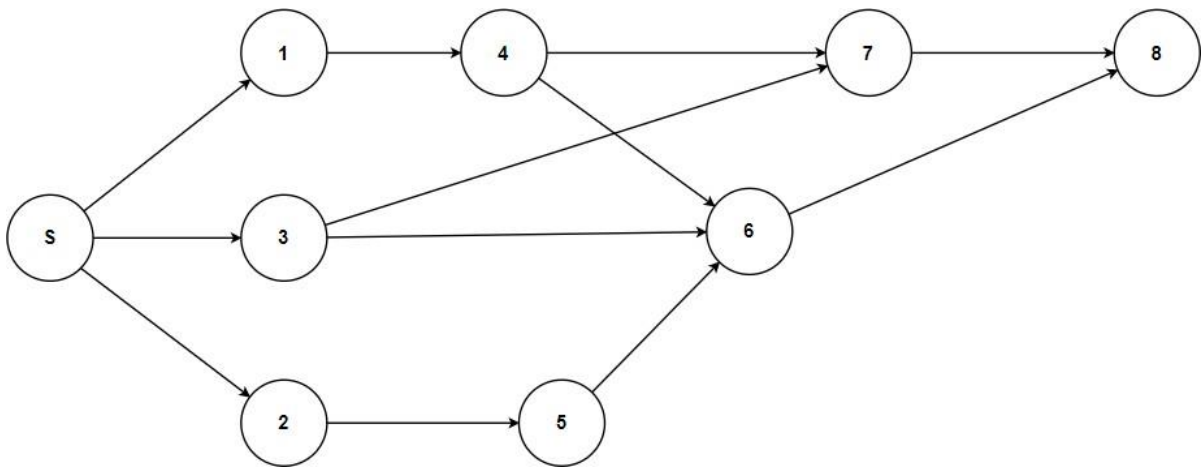


→ **AoA Network:**

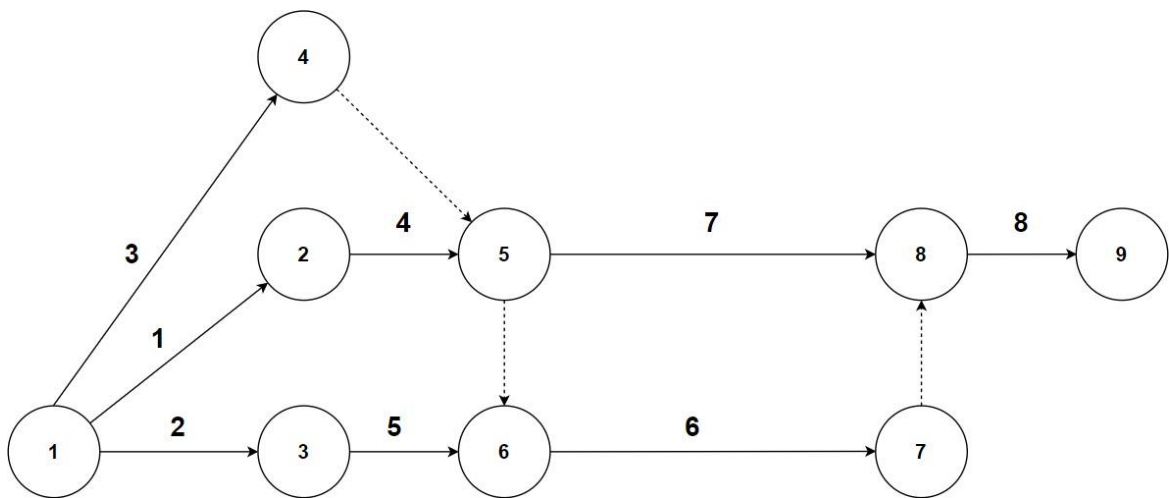


Question NO. 2 Solutions:

→ **AoN Network:**



→ **AoA Network:**

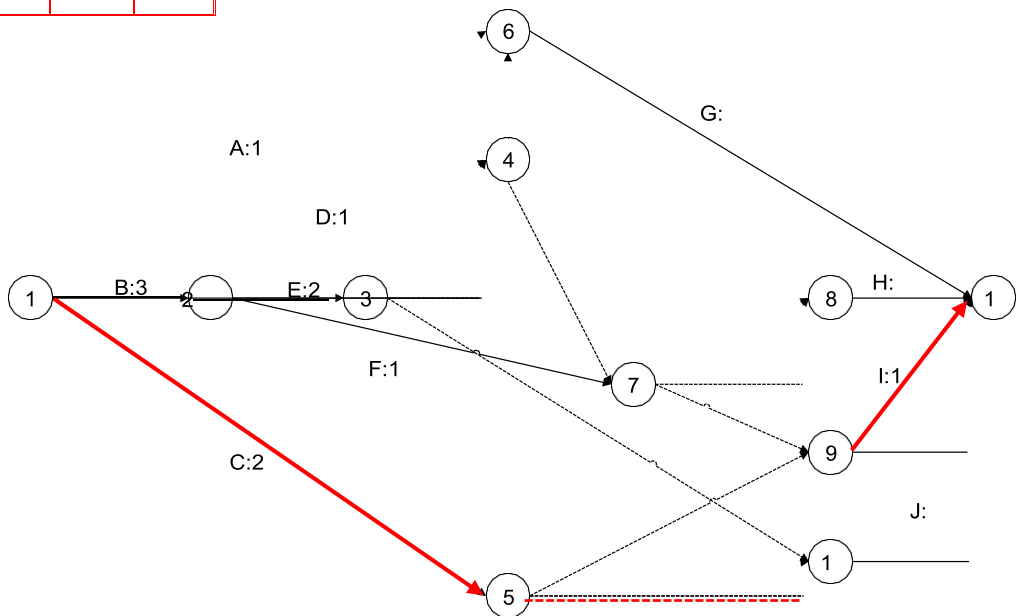


Question NO. 3 Solutions:

Activity	Immediate predecessors	Duration
A	-	17
B	-	3
C	-	20
D	B	11
E	B	2
F	B	12
G	A, D	7
H	F, C	2
I	F, C	10
J	E, C	6

ES _i	i	EF _i	TF _i
LS _i	di	LF _i	FF _i

Where, i = activity, d_i = duration of activity i .



0	START	0	0
0	di=0	0	0

0	B	3	5
5	di=3	8	0

3	D	14	9
12	di=11	23	3

0	A	17	6
6	di=17	23	0

0	C	20	0
0	di=20	20	0

3	E	5	19
22	di=2	24	15

3	F	15	5
8	$d_i=1$ 2	20	5

20	H	22	8
28	$d_i=2$	30	8

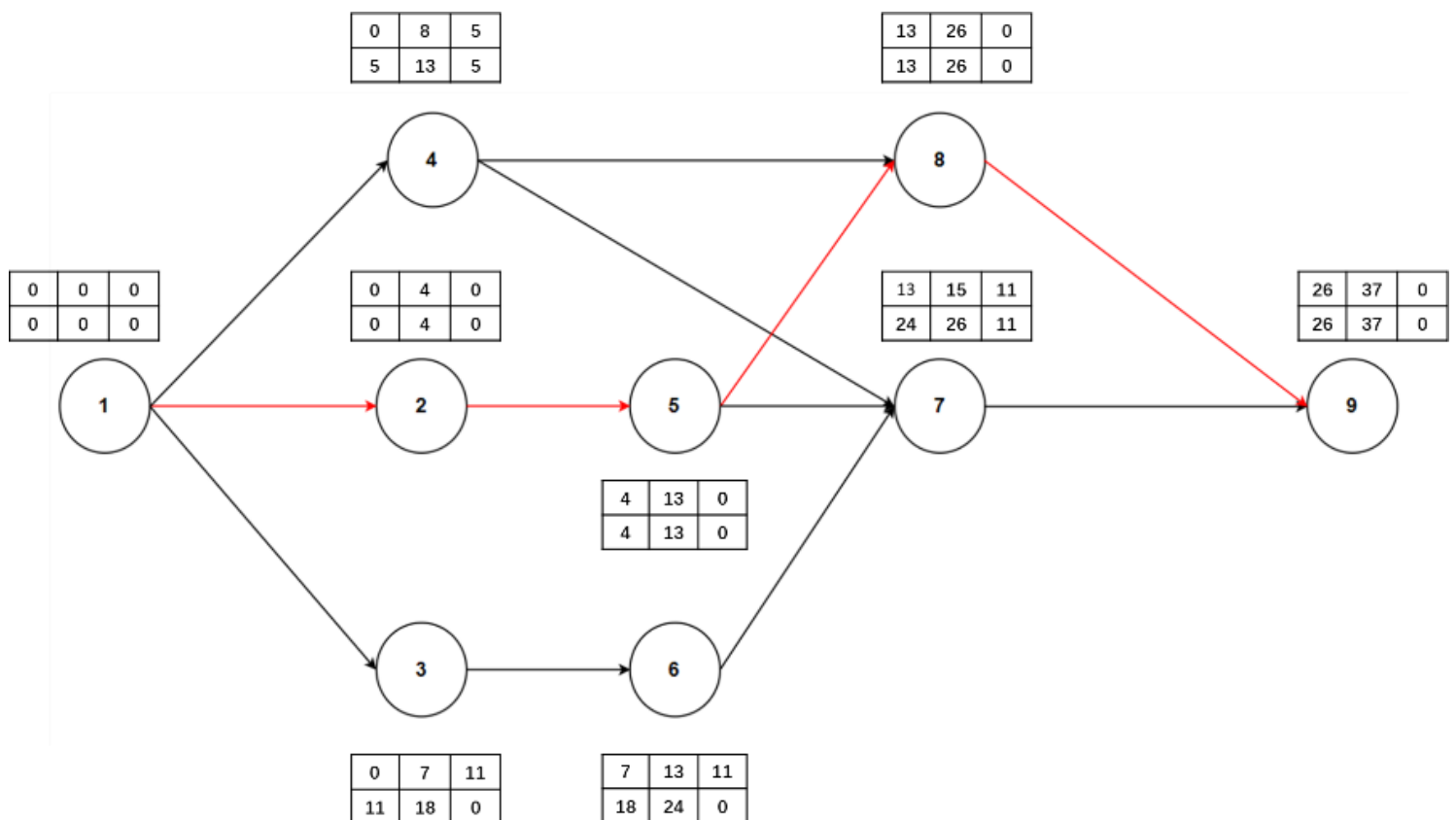
20	J	26	4
24	$d_i=6$	30	4

17	G	24	6
23	$d_i=7$	30	6

20	I	30	0
20	$d_i=1$ 0	30	0

30	END	30	0
30	$d_i=30$	30	0

Question NO. 4 Solution:



Where, i = activity, d_i = duration of activity i .

0	$i=1$	0	0
0	$d_i=0$	0	0

0	2	4	0
0	$d_i=4$	4	0

0	3	7	11
11	$d_i=7$	18	0

0	4	8	5
5	$d_i=8$	13	5

4	5	13	0
4	$d_i=9$	13	0

7	6	13	11
18	$d_i=6$	24	0

13	7	15	11
24	$d_i=2$	26	11

13	8	26	0
13	$d_i=1$ 3	26	0

26	9	37	0
26	$d_i=1$ 1	37	0