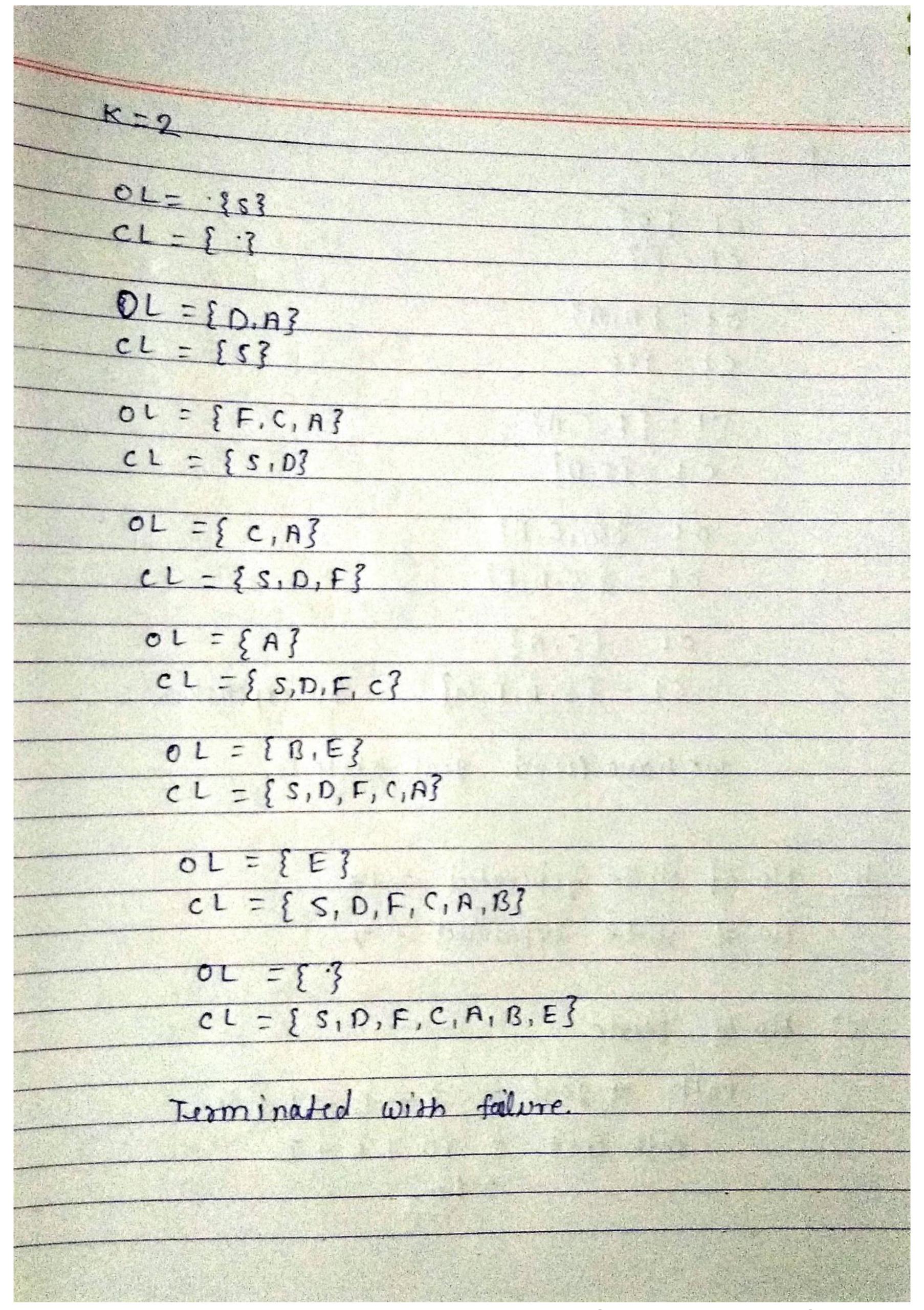
be No at node conserted =	14
b: No. at node generated = No. at node expanded =	7
c. path = s -> D -> F ->	5
$C. Path = S \rightarrow D \rightarrow F \rightarrow Path cost = 10 + 5 + 3 = 1$	8
	Bungale de
DFS	
$0. \qquad 0L = \S \S $	
CL - { }	
$OL = \{D,A\}$	
CL = {S}	
0L= { F, C, R}	
$OL = \{F, C, R\}$ $CL = \{S, D\}$ $OL = \{G, C, R\}$ $CL = \{S, D, F\}$	
$CL = \{S,D\}$ $OL = \{G_1,G_1A\}$	
$CL = \{S,D\}$ $OL = \{G,C,R\}$ $CL = \{S,D,F\}$ $OL = \{C,R\}$ $CL = \{S,D,F\}$	C13
$CL = \{S,D\}$ $OL = \{G,C,R\}$ $CL = \{S,D,F\}$ $OL = \{C,R\}$	C13
$CL = \{S,D\}$ $OL = \{G,C,R\}$ $CL = \{S,D,F\}$ $OL = \{C,R\}$ $CL = \{S,D,F\}$	o, mel Terminateo

Scanned by TapScanner

Iterative Depping, search
IDS —
_a K = 0.
OL= {S}
$c_1 = \{3\}$
OL = { }
CL = {} // NO expension terminated with failure.
terminated with failure.
K=1.
$OL = \{S\}$
cl={3
$OL = \{D, A\}$ $CL = \{S\}$
$CL = \{A\}$ $CL = \{S,D\}$
OL={ }
$CL = \{S, D, A\}$ NO expension
Terminate with fallure.



	and repair of the Control
k = 3.	
OL - { S } CL - { }	
0 L = { D, M }	
$CL = \{S\}$ $OL = \{F,C,A\}$	
$C L = \{S, D\}$ $O L = \{G_1, C, A\}$	
$CL = \{S_1D_1F\}$ $OL = \{C_1R\}$	
$CL = \{S, D, F, G, \}$ KIO-EXPENSION.	
we have found goal state. Cr.	
b. No. at Node generated = 17 No. at node expanded = 7	
(c) Along Photo	
Path of goal = $s \rightarrow 0 \rightarrow F \rightarrow G$ Path cost = $10 + 5 + 3$	

UCS:
<u></u>
OL = { S°}
$OL = \{D^{10}, B^{1}\}$
$CL = \{S^{\circ}\}$
0L = { D'0, B21, E'6}
CL = { S°, A1}
$0L = \{ g^{2}, E^{16}, F^{15}, C^{11} \}$ $CL = \{ S^{0}, A^{1}, D^{10} \}$
$CL = \{ S^{\circ}, A^{1}, D^{10} \}$
$OL = \{B^{21}, E^{16}, F^{13}, G^{13}, A^{13}\}$
CL - { S°, A ¹ , D'°, C ¹¹ }
C - 21 - 16 13 13 7
$01 - \{B^{21}, E^{16}, F^{13}, A^{13}\}$
$CL = \{S^0, A^1, D^{10}, C'', G^{13}\}$ Terminated.
tound goal state on.
b. No. at Node generated = 10 No. at Node unpomded = 4
No, of Node unpanded = 4
C. Path $\cdot = S \rightarrow D \rightarrow C \rightarrow G$ Path Cost = $10+1+2$
- 13 Avs.