AIML - Assignment

Bagitha
2320030434
Sec-4

1) BASE
BALL
GAMES

B = 7
A = 4
S = 8
L = 5
G = 1
M = 9
E = 3

if B is the maximum value G = 1

$E + L = S \rightarrow (a)$

$E + L = S + 10 \rightarrow (b)$

$E = S - L + 10 \Rightarrow (d)$

from $C_2 \Rightarrow S + 2 = E$ put in (d)

$S + L = S - L + 10$

$2L = 10$

$L = 5$

Step: 2:

$E + L = S$ (a)

$S - E = L$

$S - E = 5$

(5,0) X
(6,1) X
(7,2)
(8,3)
(9,4)

$B + B = A + 10$

Choosing $B = 6$ and combining (7,2) for (S,E)

$6 + 6 = 12$

A = 2 already chosen

Choosing B = 7 and combined (8, 3) to se

$$7 + 7 = 14$$

$$A = 4$$

$A + A = 4$

$4 + 4 = M$ => As there can be carry from S+L in $C_2 + 013$

$M = 8$

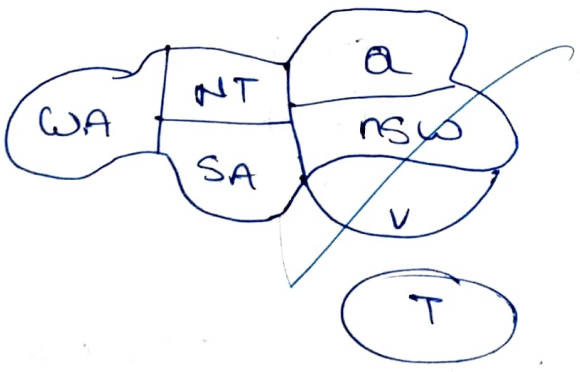
B A S E		7 4 8 3
B A I L	=>	7 4 5 5
G A M E S		4 9 3 8

2. MSD

V = { WA, NT, Q, NSW, V, SA, T }

D = { Red, green, blue }

Constraints = Adjacent cant have small colours



	WA	NT	SA	Q	NSW	V	T
Intial	RGB	RGB	RGB	RGB	RGB	RGB	RGB
WA→R	R	GB	GB	RGB	RGB	RGB	RGB
NT→G	R	G	B	RB	RGB	RGB	RGB
SA→B	R	G	B	RB	RG	RG	RGB
Q→R	R	G	B	R	G	RG	RGB
NSW→G	R	G	B	R	G	R	RGB
V→R	R	G	B	R	G	R	RGB
T→G	R	G	B	R	G	R	RGB

WA→R
NT→G
SA→B
Q→R
NSW→G
V→R
T→G

31/8/24