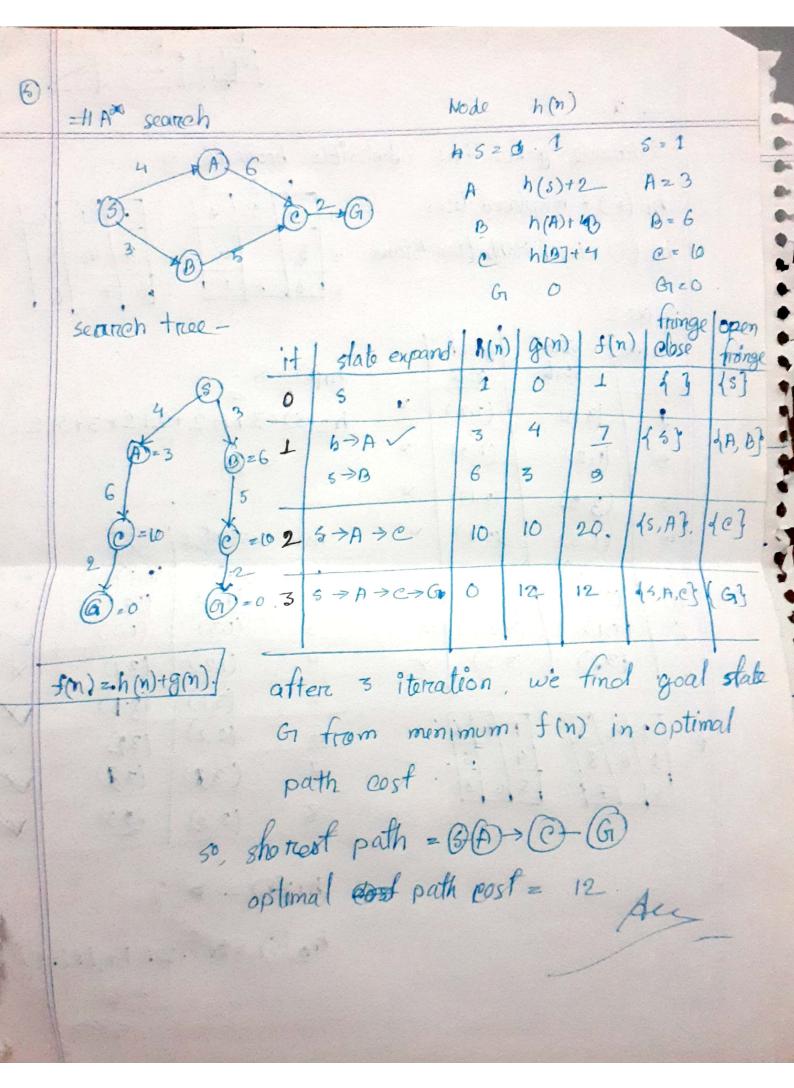
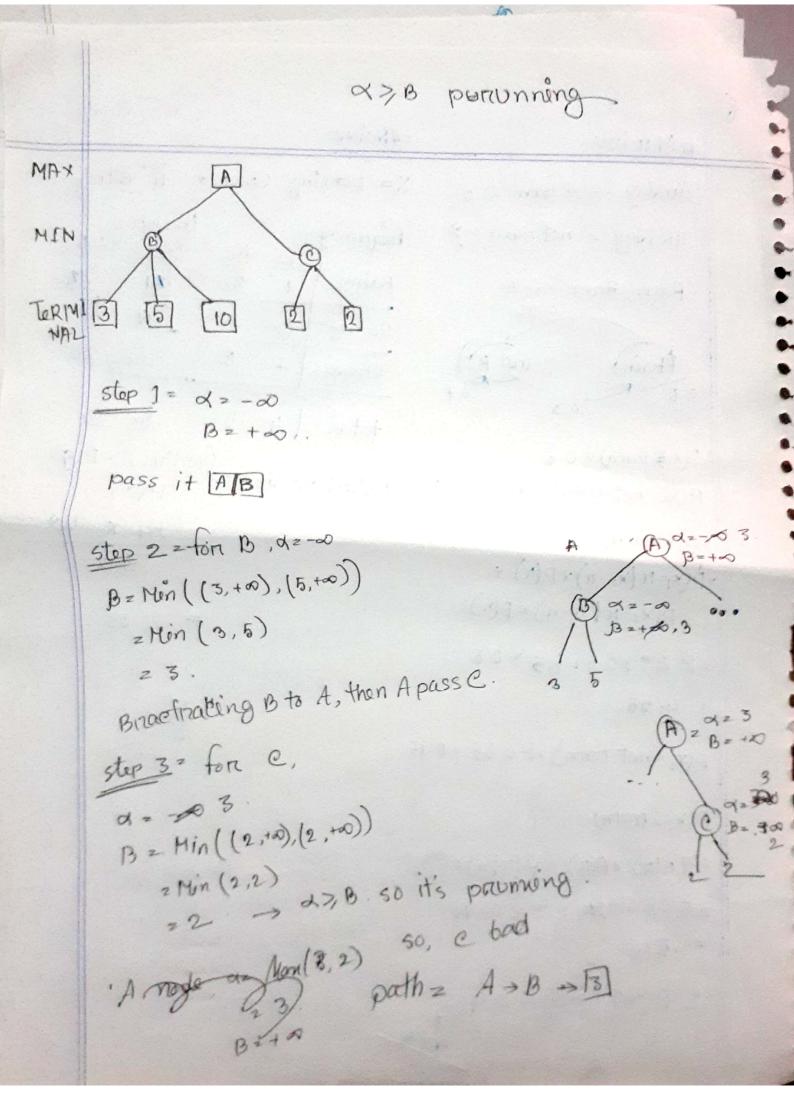
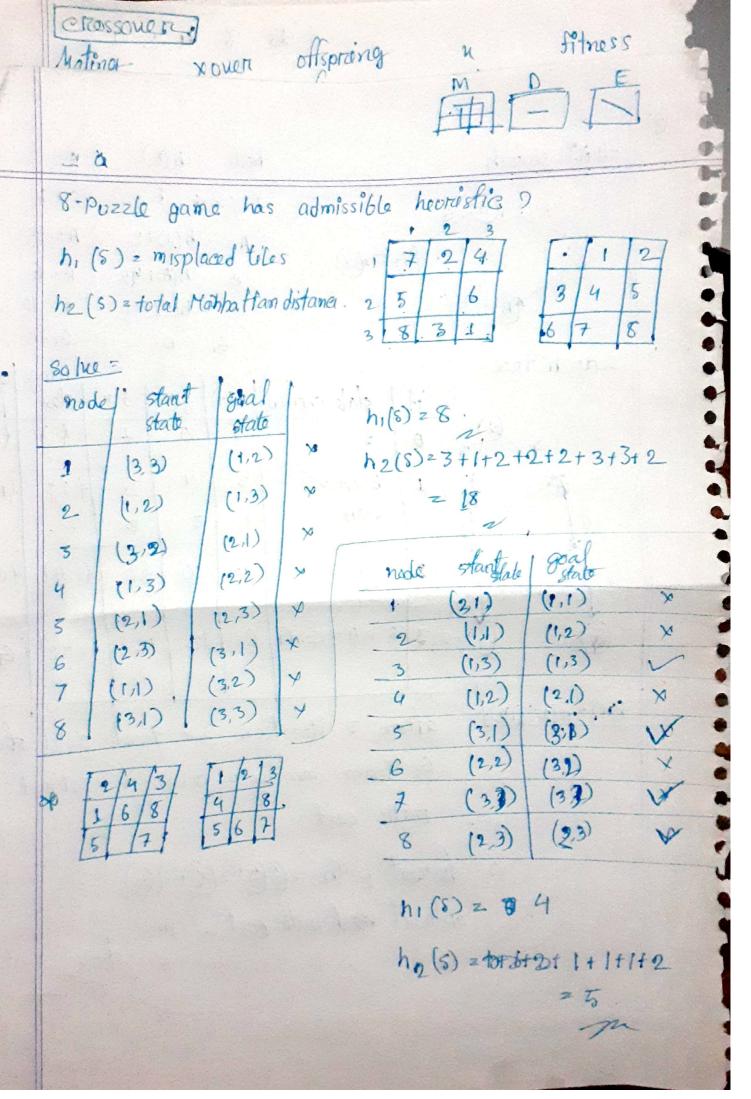
01

					CT02=10	THE	
#A* search algorithm - Search tree -							
Solve	Solve = given, G1 = goal node h=1						
S = start node (5)							
2 (	2 last digit =						
h(s			h2 A	5	G		
h(		h = 2	3/	+	h2 0		
h(		(B)	-	( ) h = 4			
h(0) = 84% + 2 = 2 $h(0) = 2 + 2 = 4$ $h(0) = 84% + 2 = 2$ $h(0) = 2 + 2 = 4$					1/2		
h	0)=1+3=4		1240	(t	5 h = 4	3)	
	h=1 3 Ah=2.	h=4	3	1	h	20	
	A Y	D)	*	3			
/	C	3	h 20	(	20		
(5)—	h=4	A	The state		20		
h=1		h20 1	- 1				
	terration -	1	nowing.	-	h(n) + g(n)		
	state expand	h(n)	8(n)	1(m)	close tringe	Open	
0	5	1	0	1	d }	486	
1	5 → A V	+	1	2	45}	(A,G)	
	S → G	0	12	12			
2	6>A>B V	2	4	6	15, A4		
	5 > A > C	4	2	6			
	$6 \rightarrow G$	0	12	12		(B,C,G)	
3	5>A>B→D	4	7	11	15, A,B 6		
	5>A>CV	4	2	6			
	5 → G	0	12	12		(D.C.G)	
4	5→A→B→D	4	7	11	(5, A, B, e)		
	5>A>C>D	4	3	7	( ) in the second		
	5->A -> C>GV	0	4	(4)		{D,D,G,G}	
	5->G	0	12_	12		1	







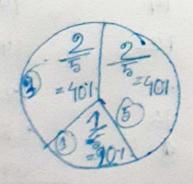
#GA.

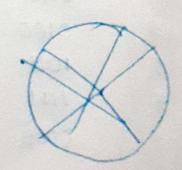
f(x) = { MAX (x"): 0 < x < 15} own (0,1,..., 15).

x value 4 bits, Population Size = 5.

Selection

strong no	intial Population	value	ritness	Probability	expected Proximo	Actual count
1	0100	4	16	O.117	0.585	7
2	0010	2	4	0.029	0.145	0
3	0111	7	49	0 358	1.79	12
4	0010	2	4 -	0.029	0.145	10
5	1000	8.	64	0.467	2.335	2
	sum	*	137	1.00	5.00	5
	Avra	- Al 14	27	0.2	1 50	1
•	MAX	(-)	64	0.467	2.335	2





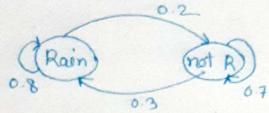
string	Mating pool	x over point	offspring after Yoven	n	fitness
1	0100	1 5 p 1 1	10101	5 5 11	25
3	0 1 1 1	1	0110.	6 6	36
3	0111	2	0000	4	16
5	1 000	2	Majoil "	11,	121
- 5	11000	3-	VI 1111	16	256
3	0/111	3	0000	0	0
	SUM AVRGI MAX	1.73	Victory (C)	*	454 ·
	mutation				
(0)	string offs	pring Youn	after mutation	x value	rithess.
	1. 010	1	1016	13	169
	3 011	0	1110	14	196
	3 010		1100	12.	* 144
	5 10		1011	н	121
	5 , 111		1000	16	256
	50M		1000	8	64
	AVR				960
	MPY				190
					Ans. 256.

0

Sunday = 0.5 train = 0.5

Tuesday = not rain = 9.

Rain, Rain = 0.8



P(x0 + rain) = 0.5

P(x0 = not train) = 1-0.5 = 0.5

P(x = rain)

=P(x,=H/x0=H) x P(H) +

 $P(x_i=n \mid x_0=n) \times P(n)$ 

= P 08 x 0.5 + 0.3 × 0.5

= 0.55

p(y, = not rain) =1-0.55 = 0.45

P(x2= main)

=P(n/n) x P(n) + P(n/n) x P(n)

= 0.8 × 0.534 03 × 0.45

= .576

.. P (not main) = 0 425

X= playing cricket if doudy

Frequency Likehood (189)

Rainy 1 2 1/21 2/25

Sunny 2 + 2/4 1/5

Cloudy 1 2 1/4 1/5

total 4 5 4/9 5/9

P(Yesleboody) = P(e1Yes) · P(q)
P(e)

= 44 x 419 3/0

= 0 53

图