

16/09/23

-° Lacture- 04 °-

-° Patterns °-

$j=1$ $j=2$ $j=3$ $j=4$
 1. $i=1$ 1 2 3 4
 $i=2$ 1 2 3 4
 $i=3$ 1 2 3 4
 $i=4$ 1 2 3 4

row $\rightarrow 4$ $n=4$ column $\rightarrow 1$ to n while ($i \leq n$)

{

 $j = 1$ while ($j \leq n$) {cout << j ; $j = j + 1$

}

end;

column start = 3

col = col - 1;

print col.

3 1 2 3
 4 5 6
 7 8 9

 $n=3$ row = 3 = n

int count = 1;

print count;

count = count + 1;

4 ☆ ☆
 ☆ ☆ ☆
 ☆ ☆ ☆ ☆

— print "☆" in second loop

5. 1
 2 2
 3 3 2
 4 4 4 4

— print row.

6.	1				
	2	3			
	4	5	6		
	7	8	9	10	
	11	12	13	14	15

int count = 1
 print count
 and increment

7	1			
	2	1		
	3	2	1	
	4	3	2	1

formul row - col + 1

8	A	B	C
	B	B	B
	C	C	C

row = 3 — n

r = 1

while (row <= n) int star

int col = 1

while (col <= n)

{
 cout << —

~~row + col + 1~~
 i = i + 1

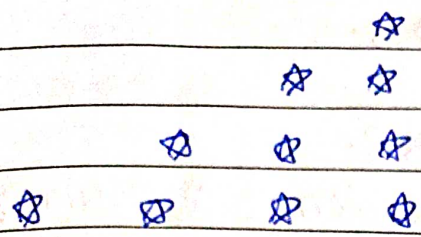
char ch = row - 1 + 'A'

9	A	B	C	D
	A	B	C	D
	A	B	C	D
	A	B	C	D

} — same col.
 'A' + row - 1.

10	A			A
	B	B		B
	C	C	C	D
				E
				F

11



$n = 4$

row = 1

while (row \leq n)

{

int space = n - i

while (space

{

space

space

1st col

1st col

4th,

1st col

1st to n

2nd to n

3rd to n

