Q. 1).

```
* * * *
* * * *
* * * *
* * * *
```

- Dry Run

Variables		Conditions		statements	Incre/decre
i	j	i<=4	j<=4	S.O.print("* ")	S.O.P( )JH it.
1	1	1<=4	1<=4	*	2
	2		2<=4	*_	3
	3		3<=4	*_	4
	4		4<=4	*_	5
	5		5<=4 X		✓ 2
2	1	2<=4	1<=4	*_	2
	2		2<=4	*_	3
	3		3<=4	*_	4
	4		4<=4	*_	5
	5		5<=4 X		✓ 3
3	1	3<=4	1<=4	*_	2
	2		2<=4	*_	3
	3		3<=4	*_	4
	4		4<=4	*_	5
	5		5<=4 X		✓ 4

i	j	i<=4	j<=4	6.0.print("* ")	5.0 P()	j++	i++
4	1	4<=4	1<=4	*		2	
	2		2<=4	*		3	
	3		3<=4	*		4	
	4		4<=4	*		5	
	5		5<=4 X				5
5			5<=4 X				

Q.2

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
~~17~~	~~18~~	~~19~~	~~20~~

- Dry Run

Variables conditions statements Pre/decre

num	i	j	i<=4	j<=4	S.o.Print(num+"\t")	S.o.p()num j++	i++
1	1	1	1<=4	1<=4	1	2	2
2		2		2<=4	2	3	3
3		3		3<=4	3	4	4
4		4		4<=4	4	5	5
5		5		5<=~~4~~ X	✓		2
5	2	1	2<=4	1<=4	5	5	2
6		2		2<=4	6	7	3
7		3		3<=4	7	8	4
8		4		4<=4	8	9	5
9		5		5<=4 X			3
9	3	1	3<=4	1<=4	9	10	2
10		2		2<=4	10	11	3
11		3		3<=4	11	12	4
12		4		4<=4	12	13	5
13		5		5<=4 X			4

num	p	j	p<=4	j<=4	S.o.print(num+"It")	S.o.p()	num	j++	i++
13	4	1	4<=4	1<=4	13		14	2	
14		2		2<=4	14		15	3	
15		3		3<=4	15		16	4	
16		4		4<=4	16		17	5	
17		5		5<=4 X		V			5

17	5	5<=4 X	

Q.3)

7 7 7 7
7 7 7 7
7 7 7 7
7 7 7 7

- Dry Run

Variables		condition		statements		Pn inc/dec	
i	j	i<=4	j<=4	s.o.print("7 "); so.p()		j++	i++
1	1	1<=4	1<=4	7		2	
	2		2<=4	7		3	
	3		3<=4	7		4	
	4		4<=4	7		5	
	5		5<=4X		✓		2
2	1	2<=4	1<=4	7		2	
	2		2<=4	7		3	
	3		3<=4	7		4	
	4		4<=4	7		5	
	5		5<=4X		✓		3
3	1	3<=4	1<=4	7		2	
	2		2<=4	7		3	
	3		3<=4	7		4	
	4		4<=4	7	✓	5	4
	5		5<=4 X		✓		

i	j	i<=4	j<=4	S.o.p("* ")	S.o.p(i+1 j+1
4	1	4<=4	1<=4	*	2
	2		2<=4	*	3
	3		3<=4	*	4
	4		4<=4	*	5
	5		5<=4 X	✓	5
5		5<=4 X			

Q.4 1 4 9
16 25 36
49 64 81

• Dry Run

	Variables		conditions		statements		incr/decr	
num	i	j	i<=3	j<=3	s.o.println(num*num)	s.o.p()	numtt	jtt ?tt
1	1	1	1<=3	1<=3	1		2	2
2		2		2<=3	4		3	3
3		3		3<=3	9		4	4
4		4		4<=3 X		✓		2
4	2	1	2<=3	1<=3	16		5	2
5		2		2<=3	25		6	3
6		3		3<=3	36		7	4
7		4		4<=3 X		✓		3
7	3	1	3<=3	1<=3	49		8	2
8		2		2<=3	64		9	3
9		3		3<=3	81		10	4
10		4		4<=3 X		✓		4
10	4		4<=3 X					

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Date
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4.5

0 3 8
15 24 35
48 63 80

• DRY RUN

	variables		conditions		statements		incre/decre	
num	P	j	P<=3	j<=3	s.o.print(num*num)	s.o.p()	num++	j++ P++
1	1	1	1<=3	1<=3	0		2	2
2		2		2<=3	3		3	3
3		3		3<=3	8		4	4
4		4		4<=3 X		✓		2
4	2	1	2<=3	1<=3	15		5	2
5		2		2<=3	24		6	3
6		3		3<=3	35		7	4
7		4		4<=3 X		✓		3
7	3	1	3<=3	1<=3	48		8	2
8		2		2<=3	63		9	3
9		3		3<=3	80		10	4
10		4	4<=3 X			✓		4
10	4		4<=3 X					