

ARCHER INFOTECH ,PUNE

List of star pattern programming exercises

1.Square Star Pattern

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

2.Hollow Square Star Pattern

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

3.Hollow Square Star Pattern with Diagonal

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

4.Rhombus Star Pattern

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

5.Hollow Rhombus Star Pattern

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

6.Mirrored Rhombus Star Pattern

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

7.Hollow Mirrored Rhombus Star Pattern

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

8.Right Triangle Star Pattern

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

9.Hollow Right Triangle Star Pattern

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

10.Mirrored Right Triangle Star Pattern

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

11.Hollow Mirrored Right Triangle Star Pattern

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

12. Inverted Right Triangle Star

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

13. Hollow Inverted Right Triangle Star Pattern

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

14. Inverted Mirrored Right Triangle Star Pattern

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

15. Hollow Inverted Mirrored Right Triangle Star Pattern

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

16. Pyramid Star Pattern

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

17. Hollow Pyramid Star Pattern

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

18. Inverted Pyramid Star Pattern

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

19. Hollow Inverted Pyramid Star Pattern

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

20. Half Diamond Star Pattern

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

21. Mirrored Half Diamond Star Pattern

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

22.Diamond Star Pattern

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

23.Hollow Diamond Star Pattern

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

24.Right Arrow Star Pattern

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

25.Left Arrow Star Pattern

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

26.Plus Star Pattern

```
  +
  +
  +
  +
+++++
  +
  +
  +
  +
```

27.X Star Pattern

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

28.Eight Star Pattern

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

29.Heart Star Pattern

[illegible]

30.Heart Star Pattern with name

```
*****  
*****  
*****  
*****  
*****ArcherInfo*****  
*****  
*****  
*****  
*****  
*****  
*****  
*****  
*****  
*****
```

List of Number pattern programming exercises

Square number patterns

11111

11111

11111

11111

11111

Number pattern 1

11111

00000

11111

00000

11111

Number pattern 2

01010

01010

01010

01010

01010

Number pattern 3

11111

10001

10001

10001

11111

Number pattern 4

11111

11111

11011

11111

11111

Number pattern 5

10101

01010

10101

01010

10101

Number pattern 6

11011

11011

00000

11011

11011

Number pattern 7

10001

01010

00100

01010

10001

Number pattern 8

01110

10001

10001

10001

01110

Number pattern 9

11111

22222

33333

44444

55555

Number pattern 10

12345

12345

12345

12345

12345

Number pattern 11

12345

23456

34567

45678

56789

Number pattern 12

1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
21 22 23 24 25

Number pattern 13

55555
54444
54333
54322
54321

Number pattern 14

12345
23455
34555
45555
55555

Number pattern 15

12345
23451
34521
45321
54321

Number pattern 16

12345
21234
32123
43212
54321

Number pattern 17

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

Number pattern 18

1 2 3 4 5
16 17 18 19 6
15 24 25 20 7
14 23 22 21 8
13 12 11 10 9

Number pattern 19

Triangle Easy Number Patterns

1
22
333
4444
55555

Number pattern 20

55555
4444
333
22
1

Number pattern 21

11111
2222
333
44
5

Number pattern 22

5
44
333
2222
11111

Number pattern 23

1
12
123
1234
12345

Number pattern 24

12345
1234
123
12
1

Number pattern 25

1
21
321
4321
54321

Number pattern 26

54321
4321
321
21
1

Number pattern 27

5
54
543
5432
54321

Number pattern 28

54321
5432
543
54
5

Number pattern 29

5
45
345
2345
12345

Number pattern 30

12345
2345
345
45
5

Number pattern 31

1
23
345
4567
56789

Number pattern 32

56789
4567
345
23
1

Number pattern 33

13579
3579
579
79
9

Number pattern 34

Triangle 0,1 Easy Number Patterns

1
10
101
1010
10101

Number pattern 35

1
00
111
0000
11111

Number pattern 36

1
01
010
1010
10101

Number pattern 37

1
11
101
1001
11111

Number pattern 38

Triangle Hard Number Patterns

1
123
12345
1234567
123456789

Number pattern 39

1
24
135
2468
13579

Number pattern 40

1
131
13531
1357531
135797531

Number pattern 41

2
242
24642
2468642
2468108642

Number pattern 42

1
121
12321
1234321
123454321

Number pattern 43

1
32
4543
567654
67898765

Number pattern 44

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

Number pattern 45

1
21
123
4321
12345

Number pattern 46

1
23
4567
89123456
7891234567891234

Number pattern 47

1 1
12 21
123 321
1234 4321
1234554321

Number pattern 48

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

Number pattern 49

1
2 4
7 11 16
22 29 37 46
56 67 79 92 106

Number pattern 50

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

Number pattern 51

1
22
333
2222
11111

Number pattern 52

N = 12345

12345
1234
123
12
1

Number pattern 53

N = 12345

12345
2345
345
45
5

Number pattern 54

Diamond Number Patterns

1
12
123
1234
12345
1234
123
12
1

Number pattern 55

1
123
12345
1234567
123456789
1234567
12345
123
1

Number pattern 56

1
121
12321
1234321
123454321
1234321
12321
121
1

Number pattern 57

```
*  
*1*  
*121*  
*12321*  
*1234321*  
*123454321*  
*1234321*  
*12321*  
*121*  
*1*  
*
```

Number pattern 58

Tricky Number Patterns

```
1  1  
2  2  
3  3  
4  4  
5  
4  4  
3  3  
2  2  
1  1
```