

```
1) 11 21 31
    12 22 32
    13 23 33
    14 24 34
    15 25 35
```

```
for x in range(1,6):
    for y in range(1,4):
        print(y,x,end=" ")
    print()
```

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

```
n=5
for x in range(1,6):
    p=x
    for y in range(1,6):
        print("{:2d}".format(p),end=" ")
        p+=n
    print()
```

```
3) 1 10 11 20 21
    2  9 12 19 22
    3  8 13 18 23
```

4	7	14	17	24
5	6	15	16	25

```

n=5
for x in range(1,n+1):
    p1=x
    p2=n-x+1
    for y in range(1,n+1):
        if(y%2==1):
            print(p1, end=" ")
        else:
            print(p2, end=" ")
        p1=p1+n
        p2=p2+n
    print()

```

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

```

n=5
for x in range(1,n+1):
    p=n-x+1
    for y in range(1,n+1):
        print("{:2d}".format(p), end=" ")
        p=p+n
    print()

```

5)	1	0	1	0	1
	1	0	1	0	1
	1	0	1	0	1

```
1 0 1 0 1
1 0 1 0 1
```

```
for x in range(1,6):
    for y in range(1,6):
        print(y%2,end=" ")
    print()
```

```
6) 01010
    01010
    01010
    01010
    01010
```

```
n=5
for x in range(1,n+1):
    for y in range(0,n ):
        print(y%2,end=" ")
    print()
```

```
7) 5
    45
    345
    2345
    12345
```

```
for x in range(5,0,-1):
```

```
for y in range(x, 6):  
    print(y, end=" ")  
print()
```

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

```
num=1  
for x in range(1, 6):  
    for y in range(1, x+1):  
        print(num, end=" ")  
        num+=1  
    print()
```

9) 1
3 5
5 7 9
7 9 11 13
9 11 13 15 17

```
for x in range(1, 6):  
    t=x-1  
    for y in range(1, x+1):  
        print(t+x, end=" ")  
        t+=2  
    print()
```

10) 1
0 0
1 1 1
0 0 0 0
1 1 1 1 1

```
n=5
for x in range(1,n+1):
    for y in range(1,x+1):
        print(x%2,end=" ")
    print()
```

11) A
AB
ABC
ABCD
ABCDE

```
for x in range(65,70):
    for y in range(65,x+1):
        print(chr(y),end=" ")
    print()
```

12) E
ED
EDC
EDCB

EDCBA

```
n=5
for x in range(n-1,-1,-1):
    for y in range(n - 1, x-1, -1):
        print(chr(y+65),end=" ")
    print()
```

```
13) 5 6 7 8 9
     4 5 6 7
     3 4 5
     2 3
     1
```

```
n=5
for x in range(1,n+1):
    for y in range(1,n-x+2):
        print(n-x+y,end=" ")
    print()
```

```
14)          1
           2 1
        3 2 1
      4 3 2 1
    5 4 3 2 1
```

```
n=5
for x in range(1,n+1):
    for y in range(n,0,-1):
        if(x>=y):
            print(y,end=" ")
```

```

        else:
            print(" ",end="")
    print()

```

15)

```

          2
        4 6
      8 10 12
    14 16 18 20
  22 24 26 28 30

```

```

n=5
k=2
for x in range(5):
    for y in range(n - x):
        print(" ",end=" ")
    for y in range(x+1):
        print("{:2d}".format(k),end="")
        k+=2
    print()

```

16) Write a program for alphabets pattern A to E?
Example for A:

```

      *
    *   *
  *   *   *   *   *
 *   *       *

```