

```
1) rows=5
for i in range(1,rows+1):
    n_upper=65
    n_lower=97
    for j in range(1,i+1):
        if i%2==0:
            print(chr(n_lower),end="")
            n_lower+=1
        else:
            print(chr(n_upper),end="")
            n_upper+=1
    print()
```

output:

```
A
ab
ABC
abcd
ABCDE
```

```
2.rows=5
for i in range(1,rows+1):
    print(" "*(rows-i),end="")
    for j in range(1,i+1):
        print(j,end="")
    print()
```

output:

```
1
12
123
1234
12345
```

3. rows=5

```
for i in range(1,rows+1):
    print(" "*(rows-i),end="")
    for j in range(1,i+1):
        print(i,end="")
    print()
```

output:

```
1
22
333
4444
55555
```

4.

rows=5

```
for i in range(1,rows+1):
    n=65
    print(" "*(rows-i),end="")
    for j in range(1,i+1):
        print(chr(n),end="")
```

```
n+=1
```

```
print()
```

output:

A

AB

ABC

ABCD

ABCDE

5. rows=5

```
for i in range(1,rows+1):
```

```
    n=65
```

```
    print(" "*(rows-i),end="")
```

```
    for j in range(1,i+1):
```

```
        if i%2==0:
```

```
            print(j,end="")
```

```
        else:
```

```
            print(chr(n),end="")
```

```
    n+=1
```

```
print()
```

output:

A

12

ABC

1234

ABCDE