

```
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(j,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