

All PATTERNS

1.

rows=5

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

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

print(j,end="")

print()

output:

1

12

123

1234

12345

2.

rows=5

for i in range(rows,0,-1):

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

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

print(j,end="")

print()

output:

12345

1234

123

12

1

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

12

123

1234

12345

4.

rows=5

for i in range(rows,0,-1):

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

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

print(j,end="")

print()

output:

12345

1234

123

12

1

5.

rows=5

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

n=65

m=97

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

if i==2 or i==4:

print(chr(m),end="")

else:

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

n+=1

m+=1

print()

output:

A

ab

ABC

abcd

ABCDE

6.

rows=5

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

n=65

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

```
    if i==2 or i==4:
        print(j,end="")
    else:
        print(chr(n),end="")
    n+=1
print()
```

output:

A
12
ABC
1234
ABCDE
7.

```
rows=5
for i in range(1,rows+1):
    n=65
    for j in range(1,i+1):
        print(chr(n),end="")
        n+=1
    print()
```

output:

A
AB
ABC

ABCD

ABCDE

8.

rows=5

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

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

print(i,end="")

print()

output:

1

22

333

4444

55555

9.

rows=5

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

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

print("*",end="")

print()

output:

*

**

10.

```
rows=int(input("enter rows :"))
```

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

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

```
    for j in range(2*i-1):
```

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

```
    print()
```

```
for i in range(rows,0,-1):
```

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

```
    for j in range(2*i-1):
```

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

```
    print()
```

output:

*

*

11.

rows=5

n=65

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

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

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

n+=1

print()

output:

A

BC

DEF

GHIJ

KLMNO

12.

rows=5

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

n=65

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

if i==2 or i==4:

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

else:

print(j,end="")

n+=1

print()

output:

1

AB

123

ABCD

12345

13.

rows=5

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

n=97

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

if i==2 or i==4:

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

else:

print(j,end="")

n+=1

print()

Output:

1

ab

123

abcd

12345

14.

rows=8

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

output:

*

15.

rows=8

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

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

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

 print("*",end="")

 print()

rows=7

for i in range(rows,0,-1):

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

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

 print("*",end="")

 print()

output:

 *

 **

 **

 *

16.

rows=4

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

if i==1 or i==2 or i==3:

for j in range(2):

print("*",end="")

print(" "*2,end="")

for j in range(2):

print("*",end="")

if i==4:

print(""*6,end="")

print()

output:

**** ****

**** ****

**** ****

17.

rows=5

for i in range(rows,0,-1):

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

print(i,end="")

print()

output:

55555

4444

333

22

1