

Patterns-3

1.) Task – 1

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

output:

```
A
ab
ABC
abcd
ABCDE
```

2.) Task – 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.) Task -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.) Task – 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.) Task – 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