

1.

```
n=10
for i in range(n):
    for j in range(i,n):
        print("",end="")
    for j in range(i+1):
        print("*",end=" ")
    print()
```

3.

```
n=9
for i in range(n):
    print(" "*(n-i), "#"* (2*i+1))
for i in range(n-2, -1, -1):
    print(" "*(n-i), "#"* (2*i+1) )
```

4.

```
n=9
for i in range(0,n):
    for j in range(0,n):
        if(i==j or j==n-1-i):
            print('#',end='')
        else:
            print(' ',end='')
    print()
```