

# Solution Exercise 1

Creative Data Mining. Uncover and Evaluate  
Chair of Information Architecture  
ETH Zürich

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We show here only one possibility of a solution. There exist many more possibilities to solve the exercises.

a)

```
for i in range(0, 3):  
    print("###")
```

b)

```
for i in range(4):  
    if i % 2 == 0:  
        p = "###"  
    else:  
        p = "000"  
    print(p)
```

c)

```
for i in range(5):  
    p = ""  
    for j in range(-1, i):  
        p = p + "#"  
    print(p)
```

d)

```
a = 0  
while a < 3:  
    print("#0#0#0#")  
    a = a + 1
```

e)

```
character = ["#", "0"]
ind = 0
for i in range(3):
    p = ""
    for j in range(0, 7):
        p = p + character[ind]
        ind = (ind + 1) % 2
    print(p)
```

f)

```
zero = False
for i in range(5):
    p = ""
    for j in range(-1, i):
        if zero:
            p = p + "0"
        else:
            p = p + "#"
            zero = not zero
    print(p)
```