In [1]:
```python
a = [2, 3, 4, 5, 6, 7]
```

In [9]:
```python
#Creating a new list with double the values in list a
# recap to add value to a list we use .append

c = []
for x in a:
    c.append(x*2)
print(c)
```

```
[4, 6, 8, 10, 12, 14]
```

In [10]:
```python
# Using list comprehesion

d = [x*2 for x in a]
print(d)
```

```
[4, 6, 8, 10, 12, 14]
```

In [18]:
```python
# Creating the following list
# [1, 4, 9, 16, 25, 36]

#1st Metod using the append function

b = []
for x in range(1,7):
    b.append(x**2)         # **2 == Square in python
print(b)
```

```
[1, 4, 9, 16, 25, 36]
```

In [23]:
```python
# 2nd- Using List comprehension

f = [ x**2 for x in range(1, 7)]
print(e)
```

```
[1, 4, 9, 16, 25, 36]
```

In [24]:
```python
# Creating
# [36, 25, 16, 9, 4, 1]

f1 = [ (7-x)**2 for x in range(1, 7)]
print(f1)
```

```
[36, 25, 16, 9, 4, 1]
```

In [26]:
```python
# CReating a list using (Range command) that is in decending order

print(list(range(6, 0, -1)))
```

```
[6, 5, 4, 3, 2, 1]
```

In [3]:
```python
f2 = [ x**2 for x in range(6, 0, -1)]
print(f2)
```

[36, 25, 16, 9, 4, 1]

In [ ]: