Advanced Python

In [2]:
```
if True: # indentiation is always 4 spaces
    print('Data Science')
```

```
Data Science
```

In [3]:
```
if False:
    print('Data Science')
print('bye for now')
```

```
bye for now
```

In [4]:
```
if True:
    print('Data Science')
print('bye for now')
```

```
Data Science
bye for now
```

In [5]:
```
if True:
    print('Data Science')
else:
    print('bye for now')
```

```
Data Science
```

In [6]:
```
if False:
    print('Data Science')
else:
    print('bye for now')
```

```
bye for now
```

Programs

In [8]:
```
x = 4
r = x % 2

if r == 0:
    print('Even number')
```

```
Even number
```

In [9]:
```
x = 5
r = x % 2

if r == 0:
    print('Even number')
```

In [10]:
```
x = 5
r = x % 2

if r == 0:
    print('Even number')
```

```
if r == 1:
    print('odd number')
```

```
odd number
```

In [11]:
```
x = 4
r = x % 2

if r == 0:
    print('Even number')

if r == 1:
    print('odd number')
```

```
Even number
```

In [13]:
```
x = 5
r = x % 2

if r == 0:
    print('Even number')

if r != 0:
    print('odd number')
```

```
odd number
```

In [14]:
```
x = 5
r = x % 2

if r == 0:
    print('Even number')
else:
    print('odd number')
```

```
odd number
```

In [15]:
```
x = 3
r = x % 2

if r == 0:
    print(' Even number')
    if x>5:
        print('greater number')
else:
    print('Odd Number')
```

```
Odd Number
```

In [17]:
```
x = 3
r = x % 2

if r == 0:
    print(' Even number')
    if x>5:
        print('greater number')
else:
    print('Odd Number')
```

```
Odd Number
```

In [18]:
```
x = 4
r = x % 2

if r == 0:
    print(' Even number')
    if x>5:
        print('greater number')

    else:
        print('lesser number ')
else:
    print('Odd Number')
```

```
 Even number
lesser number
```

In [19]:
```
x = 6
r = x % 2
if r == 0:
    print('Even number')
    if x>5:
        print('greater number')
    else:
        print('not greater')
else:
    print('Odd Number')
```

```
Even number
greater number
```

In [20]:
```
x = 5

if x == 1:
    print('one')

elif x == 2:
    print('Two')
elif x == 3:
    print('Three')
elif x == 4:
    print('four')

else:
    print('number not found')
```

```
number not found
```

In [ ]: