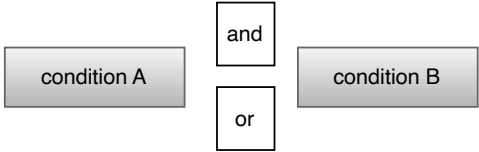
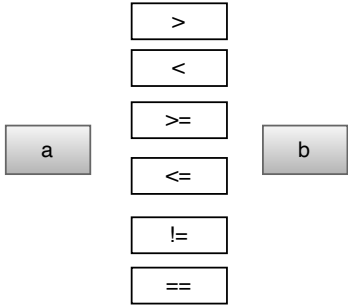


if statement

```
if condition :
    # True block
else:
    # False block
```



str

is,==,len(str),in

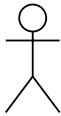
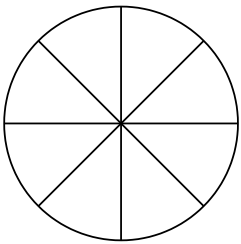
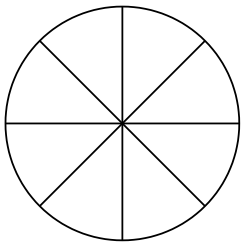
exercise 1 :

ask the user to enter his id number
 check if the id number is valid

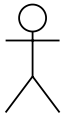
valid id number contain 9 digits

exercise 2:

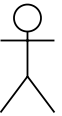
fact: a pizza has 8 slices
 you are planning a party, and you wan order pizza for your friends
 you have a math issues so you decided to build python application to calc the number of slices each one gonna have and the left-overs,
 write a python code that asks the user how many participants they invited
 and how many pizza's ordered
 the application must show the number of slices per person and the leftovers
 and if the lift overs is exactly half of the slices per person number
 print 'each one will get a 0.5 meal yaaaay'



hodi



itay



aviv

2 pizzas
 16 slices
 5 slices per person
 1 leftovers

exercise 3 :

ask the user to insert value from 0-2
 0- for printing his name
 1- for calculate his age
 2- for printing the half of his address

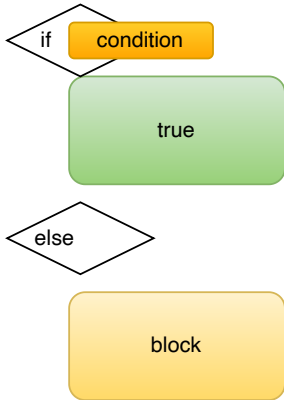
if the user chooses 0 then:
 ask his name , save it in a var , print the name in title
 if the user chooses 1 :
 ask for his birth-year and calc his age please
 if the user hit the 2 :
 ask for his address and print half of it

example:

welcome to my terminal
 i) if you wish to print your name here , press 0
 ii) if you with to calc you age , press 1
 iii) if you wish to print your address with bug , press 2
 2
 whats your address: Nof haaretz 1 , rosh haayen
 Nof haaretz

elif
nested if
match

write a code that take the student grade and if the grade in
above 90 -> print A
if the grade between 90-80 print B
if the grade between 70-60 print C
otherwise F



```
if grade > 90 :  
    print('A')  
elif grade <= 90 and grade >80:  
    print('B')
```

```
match var:  
    case 1:  
        # true block
```

list

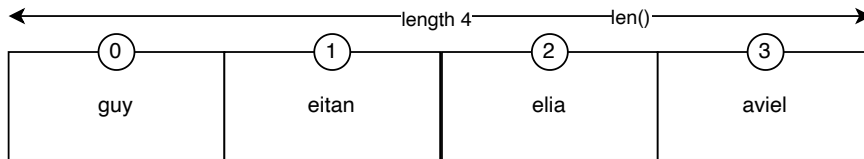
list

is a collection that can store
multiple values in one variable

- ordered
- mutable
- allow duplications

```
numbers = [1,2,3,4,5,6,88] # list of numbers  
foods = ['kobeh','pizza','apple pie'] # list of strings  
mix = [ 1 , 'eitan', True , [1,2,3] ]
```

names



Accessing Elements

```
print(names[0]) # guy  
print(names[5]) # error index out of range  
print(names[-1]) # aviel negative index
```

change items

```
names = ['guy','eitan','elia','aviel']  
  
names[2] = 'rotem'  
print(names)  
['guy','eitan','rotem','aviel']
```

add items

```
names = ['guy','eitan','elia','aviel']  
names.append('yana')  
print(names)  
['guy','eitan','elia','aviel','yana']  
  
names.insert(1,'sahar')  
print(names)  
['guy','sahar','eitan','elia','aviel','yana']
```

remove items

```
names = ['guy','eitan','elia','aviel']  
  
names.pop(1) # delete by index  
print(names)  
['guy','elia','aviel']  
  
names.remove("aviel") #delete by value  
print(names)  
['guy','elia']  
  
del names[0]  
print(names)  
['elia']
```

```
names.sort()  
names.reverse()  
names.count()  
names.index()  
names.clear()
```

tuple

tuple

is a collection that can store
multipule values in one variable
but we cannot change them

-ordered
- immutable
- allow duplications

```
numbers = (1,2,3,4,5,6,88) # list of numbers  
foods = ('kobeh','pizza','apple pie') # list of strings  
mix = ( 1 , 'eitan', True , [1,2,3] )
```

set

SET

is a collection that can store
unique value only

-unordered
- mutable
- does not allow duplications

```
numbers = (1,2,3,4,5,6,88) # list of numbers  
foods = ('kobeh','pizza','apple pie') # list of strings  
mix = ( 1 , 'eitan', True , [1,2,3] )
```