1. The two values of Boolean datatype are True and False. In python it is written as True and False.
2. There are multiple Boolean operators in Python. Some of them are-
   1. and
   2. or
   3. not
3. Truth table of-
   1. and -

|  |  |  |
| --- | --- | --- |
| A | B | A and B |
| True | True | True |
| True | False | False |
| False | True | False |
| False | False | False |

* 1. or-

|  |  |  |
| --- | --- | --- |
| A | B | A or B |
| True | True | True |
| True | False | True |
| False | True | True |
| False | False | False |

* 1. not(unary operator)-

|  |  |
| --- | --- |
| A | not A |
| True | False |
| True | False |
| False | True |
| False | True |

1. a. (5>4) and (3==5) -> False

b. not(5>4) -> False

c. (5>4) or (3==5) -> True

d. not((5>4) or (3==5)) -> False

e. (True and True) and (True==False) -> False

f. (not False) or (not True) -> True

1. The six comparison operators are-
   1. ‘==’
   2. ‘!=’
   3. ‘>’
   4. ‘<’
   5. ‘>=’
   6. ‘<=’
2. a. ‘==’ -> This is equality operator which is used to checks whether two values are equal or not. E.g. 5==6 will give false since both are not equal whereas 5==5 will five True since both are equal.

b. ‘=’ -> This is assignment operator. Using this we assign a value to a variable. E.g. a=5.

Both these operators can be differentiated by there symbol. Equality operator uses double equal to sign whereas assignment operators use single equal to sign.

1. Block 1-> if spam==10:

print(‘eggs’)

Block 2-> if spam<5:

print(‘bacon’)

Block 3-> else:

print(‘ham’)

print(‘spam’)

Print(‘spam’)

1. if(spam==1):

print(‘Hello)

else if(spam==2):

print(‘Howdy)

else:

print(‘Greeting!’)

1. In order to break the endless loop, we will press ctrl+c.
2. break – Used to break the current loop.

continue – Used to skip the current iteration.

1. All these three statements work same. There is no difference among them.
2. for I in range(10):

print(i)

i = 0

while(i<=10):

print(i)

i = i+1

1. We can call that method by following way-

import spam

spam.bacon()