1. What are the two values of the Boolean data type? How do you write them?

Ans. Two values are True or False

X = True or X = False

1. What are the three different types of Boolean operators?

Ans. ‘and’ , ‘or’ and ’not’ operators.

1. Make a list of each Boolean operator's truth tables (i.e. every possible combination of Boolean values for the operator and what it evaluate ).

Ans.

And Table

True and True = True

True and False= False

False and False= False

False and True = False

OR Table

True or True = True

True or False= True

False or False= False

False or True = True

NOT Table

not(True) = False

Not(False) = True

4. What are the values of the following expressions?

Ans.

(5 > 4) and (3 == 5) -----> False

not (5 > 4) -----> False

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

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

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

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

5. What are the six comparison operators?

Ans.

>

<

<=

>=

==

!=

1. How do you tell the difference between the equal to and assignment operators?Describe a condition and when you would use one.

Ans.

Assignment operator (=) is used while assigning value to variables. Ex. Pi=3.14

Equal to operator is used to compare between two values and it returns boolean value as a result. Ex. a == b or a==10 etc.

7. Identify the three blocks in this code:

spam = 0

if spam == 10: //Block1

print('eggs')

if spam > 5: //Block2

print('bacon')

else: //Block3

print('ham')

print('spam')

print('spam')

8. Write code that prints Hello if 1 is stored in spam, prints Howdy if 2 is stored in spam, and prints Greetings! if anything else is stored in spam.

Ans.

**Code**:

if spam==1:

print(“Hello”)

elif spam==2:

print(“Howdy”)

else:

Print(“Greetings”)

1. If your programme is stuck in an endless loop, what keys you’ll press?

Ans. CTRL + C

1. How can you tell the difference between break and continue?

Ans.

Break -> It is used to break the loop at that time and proceed to next statement outside loop.

Continue -> It is used to break the current iteration of loop and continue with next iteration.

1. In a for loop, what is the difference between range(10), range(0, 10), and range(0, 10, 1)?

Ans.

Practically there will be no difference between the three as range(10) only signifies breakpoint ,by default it will start with 0 and 1 as increament value whereas the other two are explicitely mentioning the values as o for startvalue and 1 as increment value.

1. Write a short program that prints the numbers 1 to 10 using a for loop. Then write an equivalent program that prints the numbers 1 to 10 using a while loop.

Ans.

For loop

For x in range(1,11):

Print(x)

While loop

x = 1

While x<11:

Print(x)

13. If you had a function named bacon() inside a module named spam, how would you call it after importing spam?

Ans.

Spam.bacon()