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

Ans: Two Boolean values are

1. True
2. False

We write them as a= True, b= False

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

Ans : Three types of Boolean operators are (And, or, Not)

3. 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 ).

And : Table for AND

A B o/p

0 0 0

0 1 0

1 0 0

1 1 1

Table for OR

A B o/p

0 0 0

0 1 1

1 0 1

1 1 1

Table for NOT

A o/p

1 0

0 1

4. What are the values of the following expressions?

(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 : Six comparison operator

>, <, ==, >=,<=, !=

6. 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 to assign a value to variable and we use (=) operator to assign value whereas we use (==) operator to validate whether two variable are equal or not

For ex whenever we need to assign the value we use assignment operator

a = ‘iNeuron Assignment’

whenever we are using any conditional statement we have to use equal operator to execute conditional statements accurately

if(a==’ iNeuron Assignment’’):

pass

else:

print(‘Values not matchec’)

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print('eggs')

if spam > 5:

print('bacon')

else:

print('ham')

print('spam')

print('spam')

Ans: output = else block will be executed and ham spam spam will be printed in console

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:

if spam == 1 :

print(‘Hello’)

elif spam == 2 :

print(‘Howdy’)

else:

print(‘Greetings!’)

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

Ans: CTRL + C

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

Ans: by looking at keyword used. We use break keyword to break the for loop after certain condition matched and continue to continue to loop.

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

In range(10) we have initialised only end point and by default it will pick starting point as 0 and step as 1

In range(0, 10) we have initialised start and end point python script will pick start and end point as initialised and step as 1

In range (0, 10, 1) we have initialised start, end, step by default python script pick step as 1 as in above two range description

12. 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 i in range(1,11):

print(i)

i = 1

while(i<=10):

print(i)

i++

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

Ans: from spam import bacon

Result = bacon()