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

Boolean data type has 2 Values which are True and False

a=True

b=False

Now, Data type of a and b is boolean

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

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 ).

In AND if both the values are true then only it will be true otherwise it will be false

T AND T TRUE

T AND F FALSE

F AND T FALSE

F AND F FALSE

In OR if any one of the values is TRUE it will be true

T OR T TRUE

T OR F TRUE

F OR T TRUE

F AND F FALSE

In NOT operator true will become false and false will become true

not(True) false

not(False) True

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?

> Greater than

< Less than

== Equal operator

>= Greater than equal to

<= Less than equal to

! not equal to

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

Assignment operator is used to assign a value

a=5

Equal operator is used to check the condition weather the value is equal to this condition or not

For Example:

Here I am assigning 7 to B

B=7

Now I want to check that 8 is equal to B’s value or not I will use equal operation

B==8 ( This will give me boolean value False because in B 7 is present not 8)

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')

Three blocks are everything inside the if statement and the lines print(‘bacon”) and print(“ham).

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.

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?

Ctrl+C

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

Break statement will break the code/execution and continue will continue the execution from the start of the loop

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

Values for all of them are same range(10) means it will by default start from and 0 and ends with 9 and same with range(0,10). range(0,10,1) will start from 0 and ends with 9 and it will move with a step of one

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.

for i in range(1,11):

print(i)

a=1

while(a<=10):

print(a)

a=a+1

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

Import spam

spam.bacon()