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

True and False

True & False is the way to write them(using capital T&F)

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 ).

True and True is True

True and False is False

Fasle and True is False

False and False is False

True or True is True

True or False is True

False or True is True

False or False is False

not True is False

not False is 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?

==

!=

>

<

>=

<=

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

Equal to == (double equal sign)

Assignment = (single equal sign)

* If we want to compare two different values then we will se equal to operator
* If we want to assign some value to a variable then we will use single equal sign operator

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print('eggs') #Block 1

if spam > 5:

print('bacon') #Block 2

else:

print('ham') #Block 3

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.

spam **=** int(input("Input a no."))

**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?

crtl+c

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

* break will break the loop and will code will not run further in that particular loop
* continue will skip that particular iteration and will go to the next iteration.

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

There is no difference in all 3

1. range (10) = it will start from zero to 9 not including 10 ( time stepping of 1)
2. range (0,10) = it will start from zero to 9 not including 10( time stepping of 1)
3. range (0,10,1) = it will start from zero to 9 not including 10(manual time stepping of 1)

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)

i=1

while i<=10:

print(i)

i+=1

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

spam.baconn()