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

True and False, we need to write them as True or False without any quotes

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

! -not , & -and, | -or

3. Make a list of each Boolean operator&#39;s truth tables (i.e. every possible combination of Boolean values for the operator and what it evaluate ).

!True => False  
True & True => True

True | True => True

True & False => False

True | False => True

!False => True

4. What are the values of the following expressions?

(5 &gt; 4) and (3 == 5) False

not (5 &gt; 4) False

(5 &gt; 4) or (3 == 5) True

not ((5 &gt; 4) or (3 == 5)) True

(True and True) and (True == False) False

(not False) or (not True) True

5. What are the six comparison operators?

== - equal to,

!= - not equal to,

<= - lesser than or equal to,

>= greater than or equal to,

> - greater than,

< - lesser than

6. How do you tell the difference between the equal to and assignment operators?Describe a

condition and when you would use one.

Equal operator to has two equal to symbol (==) where as assignment operators has one equal to (=)

During assignment of values to a variable assignment operator is used.

eg, a = 10

When you need to compare two variables then you need to use equal operator

Eg, b = 20

print(a==b) - will print false

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print(&#39;eggs&#39;)

if spam &gt; 5:

print(&#39;bacon&#39;)

Else:

print(&#39;ham&#39;)

print(&#39;spam&#39;)

print(&#39;spam&#39;)

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 will exit from the loop

Continue will proceed with the next iteration

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

range (10) is from 0-9, by default the starting number is 0 and it goes till it reaches 10

range(0,10) is from 0-9 but here the starting number is mentioned as 0 and it goes till it reaches 10

range(0, 10, 1) is from 0-9 but here the starting number is mentioned as 0 and it goes till it reaches 10. Here the third digit mentioned in the range is the increment value. Based on how much the value should be incremented

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(10):

print(i+1)

i = 1

while(i<=10):

print(i)

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.bacon()