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

True and False

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 ).

And:

True and True = True

True and False = False

False and True= False

False and False= False

OR:

True OR True = True

True OR False = True

False OR True= True

False OR False= False

NOT:

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?

==

!=

<

>

<=

>=

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

== is used to compare two variables while = is used to assign value.

E.g.

3==4 will return False

A=3 will assign 4 to variable A

7. Identify the three blocks in this code:

spam = 0

if spam == 10: #block 1 starts here

print('eggs')

if spam > 5: #block 2 starts here

print('bacon')

else: #block 3 starts here

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.

spam=1

if spam==1:

print("Hello")

elif spam==2:

print("Howdy")

else:

print("Greetings")

# Output: Hello

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: Break exits the loop not executing further iterations

Continue: Continue skips the remaining statements for current iteration and continue with Next iteration

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

These three will run the for loop for same number of iterations with same frequency as range() takes three parameters where first an last parameter has default value 0 and 1 respectively.

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 lloop

for i in range(1,11):

print(i)

# while loop

i=1

while i<11:

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?

Import spam as sp

Sp.bacon()