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

**True, False**

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

**and, not, or**

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**

**false and true is false**

**false and false is false**

**not true is false**

**not false is true**

**true or true is true**

**true or false is true**

**false or true is true**

**false or false is false**

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.

**= signifies stored value to a value. == compares two values according to boolean.**

A condition is used in a statement to evaluate a boolean operator.

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')

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)**

**if 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 stops the code and no command is executed after the command. Continue directs the loop to its start.**

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

**They all do the same thing.**

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 a loop:

for a in range(1,11):

print(a)

for while loop:

a=0

while a<10:

a=a+1

print(a)

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

**The function would be called spam.bacon().**