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 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 true true**

**true false false**

**false true fasle**

**false false false**

**Or**

**True true true**

**True false true**

**False true true**

**False false 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) **- true**

(5 > 4) or (3 == 5) **- true**

not ((5 > 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?

**== =! < > < = =>**

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**

**= equal**

**Eg 3==5**

**A = 4**

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(“spam”)

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 to stop program**

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

**Break stops the loop and moves outside the loop**

**While continue fallows loop to go on and brings loop to the start**

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

**The range(10) call ranges from 0 up to (but not including) 10, range(0, 10) explicitly tells the loop to start at 0, and range(0, 10, 1) explicitly tells the loop to increase the variable by 1 on each iteration.**

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(0,10)**

**Print(i)**

**i = 10**

**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()**