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 and 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 : 0 \* 0 = 0; 0 \* 1 = 0; 1 \* 0 = 0; 1 \* 1 = 1**

**OR : 0 + 0 = 0; 0 + 1 = 1; 1 + 0 = 1; 1 1 + 1 = 1**

**NOT : !0 = 1; !1 = 0**

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 operator evaluates a condition if it Left operand matches the right operand and returns a True or False value (2 == 2) --> True**

**Assignment operator assigns the value or expression on the Right side of the operator to the left operand. A = (2 == 2) --> A = True**

7. Identify the three blocks in this code:

**(Block 1)**

spam = 0

**(Block 2)**

if spam == 10:

print('eggs')

**(Block 3)**

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.

**spam = int(input("Enter an integer :"))**

**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 quits the current loop and will not execute the statements after the break statement**

**Continue skips the following statement in a loop but will return to the next iteration**

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

**All three are same**

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 < 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?

**bacon()**