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

**True(1>0) or False(1>2)**

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 ).

**True and True = True, True and False = False, False and True = False, False and False = False**

**True or True = True, True or False = True, False or True = True, False or False = False**

**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.

**a = 10 (assignment operator), type (a) == int**

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')

**ham**

**spam**

**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 = 2**

**if spam == 1:**

**print("hello")**

**elif spam == 2:**

**print("howdy")**

**else:**

**print("Welcome to ineuron")**

9.If your programme is stuck in an endless loop, what keys you’ll press?

**ctrl+break or intrupt the kernel**

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

**Break ends the loop, continue will continues the loop**

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

**range(10) : prints the items from starting to before 10th index**

**range(0, 10) : prints the items from mentioned starting to before 10th index**

**range(0, 10, 1) : prints the items from starting to before 10th index in positive direction**

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.

**1). for i in range(1, 11):**

**print(i)**

**2). a = 1**

**while a<11:**

**print(a)**

**a = a+1**

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

**Spam.bacon(\*args)**