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, 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 ).

 True and True is True.

True and False is False.

False and True is False.

False and False is False.

True or True is True.

True or False is True.

False or True is True.

False or False is 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)

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?

There are six main comparison operators: **equal to, not equal to, greater than, greater than or equal to, less than, and less than or equal to(**==, !=, <, >, <=, and >=.)

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

he **“=”** is an assignment operator is used to assign the value on the right to the variable on the left. The '==' operator checks whether the two given operands are equal or not. If so, it returns true. Otherwise it returns false

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.

spam=int(input("enter the number"))

if spam == 1:

print('hello')

elif spam == 2:

print('bacon')

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?

The main difference between break and continue statement is that **when break keyword is encountered, it will exit the loop**. In case of continue keyword, the current iteration that is running will be stopped, and it will proceed with the next iteration

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

 [range(stop)](https://pynative.com/python-range-function/" \l "h-range-stop) WILL PRINT 0-9

 [range(start, stop)](https://pynative.com/python-range-function/" \l "h-range-start-stop) WILL PRINT 0-9

 [range(start, stop, step)](https://pynative.com/python-range-function/" \l "h-range-start-stop-step) WILL PRINT 0-9

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(1,11,1):

print(i)

i=1

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?

This function can be called with spam.bacon()