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

**Two types of variable are true or false**

**1== 0 is True whereas 2<1 is 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?

**less than ( < ),**

**less than or equal to ( <= ),**

**greater than ( > ),**

**greater than or equal to ( >= ),**

**equal to ( == ),**

**not equal to ( !=** **)**.

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

The “=” 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:

The three blocks are everything inside the if statement and the lines print('bacon') and print('ham').  
print('eggs')  
if spam > 5:  
print('bacon')  
else:  
print('ham')  
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=4

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?

The Python break statement stops the loop in which the statement is placed. A Python continue statement skips a single iteration in a loop. Both break and continue statements can be used in a for or a while loop. ... The continue statement allows you to skip part of a loop when a condition is met.

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

* range(stop) takes one argument.
* range(start, stop) takes two arguments.
* range(start, stop, step) takes three arguments.

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.

i = 1

while(i<=10):

    print(i)

    i += 1

for i in range(1, 11):

print(i)

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().