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:-

| Operator A | Operator B | Logical **AND** result |
| --- | --- | --- |
| True | True | True |
| True | False | False |
| False | True | False |
| False | False | False |

OR:-

| Operator A | Operator B | Logical **OR**Result |
| --- | --- | --- |
| True | True | True |
| True | False | True |
| False | True | True |
| False | False | False |

NOT:-

| Operator A | Logical **NOT Result** |
| --- | --- |
| True | False |
| 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?

**Equal,Not equal,greater than,less than,greater than equal to,less than 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.

**Equal to is used to check whether to operands are equal or not and it gives Boolean output but assignment operator assigns the value to variable according to left and right value.**

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')

**1**

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('Greetings!')**

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

**Use of break or control + c**

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

**Break will stop loop when desired condition is achived continue will loop after condition**

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

**All 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.

**x=range(1,10)**

**for i in x:**

**print (i)**

**i = 1**

**while(i<=10):**

**print(i)**

**i += 1**

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

**Import bacon from spam**