1. What are the Boolean data type's two values? How do you go about writing them?

**True and 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 ).

|  |  |  |
| --- | --- | --- |
| A OR B | A AND B | NOT B |
| 0 OR 0 = 0 | 0 AND 0 = 0 | NOT 0 = 1 |
| 1 OR 0 = 1 | 1 AND 0 = 0 | NOT 1 = 0 |
| 0 OR 1 = 1 | 0 AND 1 = 0 |  |
| 1 OR 1 = 1 | 1 AND 1 = 1 |  |
|  |  |  |

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 different types of reference operators?

i don’t know what you are aiming for

6. How do you tell the difference between the equal to and assignment operators?

**equal to ‘==’ , assignment ‘=’**

7. Describe a condition and when you would use one.

**‘==’ is used when you would like to find a boolean**

**‘=’ is used when you would like to assign a value to a variable**

8. Recognize the following three blocks in this code:

spam = 0

if spam == 10:

print('eggs')

if spam > 5:

print('bacon')

else:

print('ham')

print('spam')

print('spam')

9. Create a programme that prints. If 1 is stored in spam, prints Hello; if 2 is stored in spam, prints Howdy; and if 3 is stored in spam, prints Salutations! if there's something else in spam.

if spam == 1:

print(‘Hello’)

elif spam == 2:

print(‘Howdy’)

elif spam==3:

print(‘Salutations’

else:

print(‘spam’)

10.If your programme is stuck in an endless loop, what keys can you press?

^ + c (control + c)

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

‘break’ just stops abrubtly and continues to the next statement outside the loop , and ‘continue’ will go to the next step within the loop

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

range(10) : the loop will start with 0 and continues till 10-1

range(0, 10): the loop will start with 0 and continues till 10-1

range(0, 10, 1): the loop will start with 0 and continues till 10-1 in increments of 1

13. Using a for loop, write a short programme that prints the numbers 1 to 10 Then, using a while loop, create an identical programme that prints the numbers 1 to 10.

for i in range(1,10+1):

print(i)

i=1

while i <=10

print(i)

i +=1

14. If you had a bacon() function within a spam module, what would you call it after importing spam?

b = bacon()