1.What are the two values of the Boolean data type? TRUE and FALSE How do you write them? print(bool(“Booleans”)) = True and print(bool()) = 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 evaluates).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| X | Y | Not X | X And Y | X or Y |
| False | False | True | False | False |
| False | True | True | False | True |
| True | False | False | False | True |
| True | 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? >, <, >=, <=, ==, !=

6. How do you tell the difference between the equal to and assignment operators? A single equal operator means assignment and two consecutive equal marks is used to check whether 2 expressions give the same value. Describe a condition and when you would use one.

X = 5 (assignment operator)

5 == 5 (comparison operator)

7. Identify the three blocks in this code:

spam = 0

if spam == 10: False

print('eggs')

if spam > 5: False

print('bacon')

else: True

print('ham') Execute

print('spam') Execute

print('spam') Execute

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 = input(“Please enter a number : ”)

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? break

10. How can you tell the difference between break and continue? Break statement in Python terminates the current loop and resumes execution at the next statement, while Continue statement rejects all the remaining statements in the current iteration of the loop and moves the control back to the top of the loop.

11. In a for loop, what is the difference between range(10), range(0, 10), and range(0, 10, 1)? The result will the same from 3 type of range scope

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, 11, 1)

for i in x:

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? Using getattr. Func = getattr(‘spam’, ‘bacon’)