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

True and False are two Boolean data types

Represented as:

True

False

2. What are the three different types of Boolean operators?

🡪NOT

🡪AND

🡪OR

3. Make a list of each Boolean operator& truth tables (i.e. every possible combination of Boolean

values for the operator and what it evaluate ).

AND;

T T -T

T F - F

F T -F

F F -F

OR

T T-T

T F-T

F T -T

F F-F

4. What are the values of the following expressions?

(5 > 4) and (3 == 5)

not (5> 4)

(5 > 4) or (3 == 5)

not ((5 > 4) or (3 == 5))

(True and True) and (True == False)

(not False) or (not True)

ANSWERS;

False

False

True

False

False

True

5. What are the six comparison operators?

🡪 > , < , >= , <= , != , ==

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

condition and when you would use one.

🡪 Equal is a operator that compares two values

🡪assignment operator is that which stores a value in variable

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’)

answer;

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.

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 break stop the continuation of the loop

🡪continue does not stop the continuation but stops the current iteration of the loop

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

🡪 for range(10) it prints all from 0-9

🡪for range(0,10) here we are adding the starting parameter prints 0-9 does not include 10

🡪for range (0,10,1) here we are increment the sequence with 1

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 loop:

for I in range(1,11)

print(i)

while loop;

i = 1

while i <= 10:

print(i, end=' ')

i = i+1