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 ).

True or True =True

True or False = True

True and True = True

True and False = False

not True = False

not 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?Describe a condition and when you would use one.

Assignment : student = 10

Equal : student = = 10

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')

Block 1 : if spam == 10:

print('eggs')

Block 2 : if spam > 5:

print('bacon')

Block 3 : else:

print('ham')

print('spam')

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’)

If(spam==2):

print(‘Howdy’)

else :

print(‘Greetings!’)

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

Ctrl Z

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

Break stops the entire loop once the said condition is met . Continue just stops with the task mentioned while continuing the outer loop

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

range(10) – 0 to 10-1 = 0 to 9

range(0,10) – Everything between 0 to 9 (Exclude 10 )

range(0, 10, 1) – Numbers between 0 to 9 ,increment by 1 each time

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 i in range(1,11):

print(i)

k=1

while(k<11):

print (k)

k=k+1

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

from spam import bacon