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 And True = True

True And False = False

False And False = False

False And True = False

True Or True = True

True Or False = True

False Or False = False

False Or True = True

4. What are the values of the following expressions?

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

Ans: False

not (5 > 4)

Ans: False

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

Ans: True

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

Ans: False

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

Ans: False

(not False) or (not True)

Ans: 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 to: we use double =

Assignment: we use single =

If I want to assign the string “Tom” to the variable T:

T = “Tom”

If I want to test whether T has the string “Tom”:

T ==”Tom”

This will return a True

7. Identify the three blocks in this code:

The colour code indicate the three blocks

spam = 0

if spam == 10:

print('eggs')

if spam > 5:

print('bacon')

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”)

elif spam ==2

print(“Howdy”)

else:

print(“Greetings”)

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

Interrupt kernel

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

Break will stop the loop

Continue will proceed with the next value in the iterable skipping current value

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

They are all the 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.

for i in range(10):

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? From spam import bacon