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 ).

AND – All conditions are true

OR - either one conditions true

NOT – All conditions are false

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 operators are assigned the value. Ex: x= 10

== is an comparison operator to check the if the value is 10 Ex: if x==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:

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.

Spam=0

If Spam==1:

Print(“spam”)

If 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?

Break – end the loop and come out

Continue - stop the current iteration and resumes the next iteration of the loop

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

Range(10) 🡪 range value is 0-9

Range(0,10) 🡪 range value is 0-9

Range(0,10,1) 🡪 range value is 0,9 with increment value is 1

In a for loop, all will give same output 0-9

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(1,11,1):

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?

Spam.bacon()