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

The two values of the Boolean data type are true and false. We can wright it as True, False.

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

AND OR and NOT

1. 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).

True and True is True.

True and False is False.

False and False is False.

False and True is False.

True or True is True.

True or False is True.

False or True is True.

False or False is False.

not True is False.

Not False is True.

1. 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

1. What are the six comparison operators?

==, !=, >=, <= ,>,<

1. How do you tell the difference between the equal to and assignment operators? Describe a condition and when you would use one.

== is the equal operator to operator that compares two values and evaluates to Boolean, while = is the assignment operator that stores a value in a variable.

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print (‘eggs’) --------------------------#block 1

if spam > 5:

print (‘bacon’)-------------------------#block 2

else:

print (‘ham’)----------------------------#block 3

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.

for spam in range(1,5):

print ("spam = ",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?

In main difference between break and continue statement is that when break keyword comes it terminate the execution of the current loop and passes into next loop or the main body. Whereas when continue statement is encountered. It skips the current iteration and it executes the next iteration in the loop.

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

range (10) : by default range starts from 0 and it produce first 10 elements. i.e., 0-9

range(0,10): Here we given the start value of the range as 0 and it produce first 10 elements. i.e., 0-9

range(0,10,1): here 1 tells the loop to increase the variable by 1 on each iteration

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, end=' ')

output : 1 2 3 4 5 6 7 8 9 10

n = 1

while n <= 10:

print(n, end=' ')

n = n+1

output : 1 2 3 4 5 6 7 8 9 10

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

Spam.bacon()