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

Ans: True and False

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

Ans: 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: 0 and 0 0 OR: 0 0 0 Not: 0 1 0 - False

0 and 1 0 0 1 1 1 0 1- True

1 and 0 0 1 0 1

1 and 1 1 1 1 1

4. What are the values of the following expressions?

(5 > 4) and (3 == 5) o/p: False

not (5 > 4) o/p : False

(5 > 4) or (3 == 5) o/p: True

not ((5 > 4) or (3 == 5)) o/p: False

(True and True) and (True == False) o/p: False

(not False) or (not True) o/p: True

5. What are the six comparison operators? o/p: >, <, !=, >=, <=, ==

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

= will assign the data in right side into variable which is in left side

== will compare both values in left and right side, provides a Boolean either True or False

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')

Ans: 3 blocks are: inside if and else statement’s

if spam == 10:

Print(‘eggs’)

if spam > 5:

print('bacon')

else:

print('ham')

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.

Sol: spam = 5

if spam ==1:

print("Hello")

elif spam == 2:

print("Howdy")

else:

print("Greeting!")

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?

Sol: Break: stops the loop, and goes to next line(outside of loop)

Continue: The continue keyword, stops the current iteration and starts the next iteration of a loop

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

Sol: All are 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.

Sol:

for i in range(10):

print(i+1)

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?

Sol: Spam.bacon()