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 and 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 ).

Ans : Operators meaning example

And True,if both are true a and b

Or True, if any one is true a or b

Not True, if it is false not a

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))

True

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

True

(not False) or (not True)

True

5. What are the six comparison operators?

Ans : < , > , <=, >=, ==, !=

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

Ans : Assignment operator(=) used to assign any value to variable eg: a=2, Where equal to (==) used to campare two values eg : 5 == 6

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 : print(‘bacon’), print(‘eggs’), 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.

Ans: spam = 0

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?

Ans : Ctrl C

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

Ans : Break : Break statement is used to terminate the loop

Continue : Continue statement used to skip the current loop and continue 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)?

Ans : range(10) : 0,1,2,3,4,5,6,7,8,9,10

Range(0,10) : 0,1,2,3,4,5,6,7,8,9

Range(0,10,1) : 0,1

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.

Ans :

for i in range(1,11):

  print(i)

num = 10

i=1

while i <= num:

  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?

Ans : spam.bacon()