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

Ans: The two values are true and false. We can write them as bool(0),bool(1) or val = True

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

Ans: Three Boolean operators are 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 ).

Ans: True and True = True

True and False= False

False and True = False

False and False = False

4. What are the values of the following expressions?

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

not (5 > 4)

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

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

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

(not False) or (not True)

Ans: (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) = Truw

5. What are the six comparison operators?

Ans: Six Comparison operators are == , !=, >, <, >=, <=

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

Ans: An equal operator is a comparison operator where as an assignment operator is used to assign the values to a variable.

You can use an equalto to compare between two variables ex: if a == b: print(‘Equal’)

the assignment operator is used for assigning vales to the variables ex: a = 10, b = 20

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: There are two if blocks and one else block in the above statement

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’)

elif 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 will break the loop or execution where as continue will let the execution proceed

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

Ans: In range(10) we are iterating through 0 to 9 same as range(0,10) but here we are giving the initial value to startwith, in range(0,10,1) we are also giving the stepper value to jump.

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)

i = 1

while(i<=10):

print(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()