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

TRUE and FALSE are two values. formulated with the use of logic operations.

Print(5>4) return TRUE

Print(6>5) return 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 ).

**Using AND Operator –**

True AND True = True

True AND False = False

False AND False = False

False AND Ture = False

**Using AND Operator –**

True OR True = True

True OR False = True

False OR False = False

False OR Ture = True

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)

Sol->

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

not (5 > 4) return False

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

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

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

(not False) or (not True) return True

5. What are the six comparison operators?

Python has six comparison operators: less than ( < ), less than or equal to ( <= ), greater than ( > ), greater than or equal to ( >= ), equal to ( == ), and not equal to ( != )

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

Equal to operator used to comparison of two variable eg. (a==b) & assignment operator is used to assign values to variable e.g. (a = 5)

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')

Text, whiteboard

Description automatically generated

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.

Graphical user interface, text, application

Description automatically generated

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** - This statement lets a user exit from an overall loop construct.

**Continue** - It does not let a user make an exit from an overall loop construct.

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

All return same value.

A picture containing table

Description automatically generated

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.

A picture containing graphical user interface

Description automatically generated

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

Sol:-

Import spam

Spam.bacon()