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

Ans – True and False there are the two Boolean data

We can use them to check any condition or pass any statement.

True

False

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

Ans- 1. AND Boolean operator

2. OR Boolean operator

3. NOT Boolean operator

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- And

True And True = True

True And False = False

False And False = Flase

OR

True OR True = True

True OR False = True

False OR False = Flase

NOT

OR

True NOT True = False

True NOT False = False

False NOT False = True

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)) = False

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

(not False) or (not True)

5. What are the six comparison operators?

And - < / > / == / <= / >= / !=

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

Ans – Assigment: a = 5 (we use = sign only single time) -It’s use to assign the new value to any variable

And equal to example is a==5 (we use == sign 2 times)- it’s use to assign the compare the value

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')

And- 1. Yellow , 2. Red, 3. Green

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.

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?

And- In a loop condition if we are using “Break”. If the condition if passed then it will come out the loop and will not check other condition. But in “continue” , after passing the condition continue start the loop.

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

Ans- 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.

Ans-1.

for i in range(11):

print(i)

2. a=0

while a<10:

a=a+1

print(a)

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

Ans- import spam

Spam.bacon()