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

🡪 True, False

True=1

False =0

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

🡪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 ).

🡪AND

True AND True =True

True AND False =False

False AND False= False

False AND True=False

OR

True OR True= True

True OR False=True

False OR True=True

False OR False=False

NOT

NOT(True)=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)=False

(not False) or (not True)=True

5. What are the six comparison operators?

🡪greater than >

Greater than and equal to >=

Less than <

Less than and equal to <=

Equal to ==

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 means we are comparing the the two condition it written ==

Whereas assignment operator is = which means we are assigning the some value to a variable or list or anything data structure

A=10 means 10 is assigned to A

A=10 and B=20

A == B means we are comparing two assigned value 10 and20.

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')

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 = int(input ("enter an integer"))

if spam == 1:

print("hello")

if spam == 2:

print("Howdy")

if spam == 3:

print("Greetigs!")

else :

print("spam")

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 stops the loop

While continue just does not print that particular argument and continue the loop for other argument.

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

🡪Nothing .. all the three 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.

🡪WHILE LOOP

i=1

while i<=10:

print(i)

i +=1

FOR LOOP

for i in range(1,11):

print(i)

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

🡪Bacon()