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

Ans - Two types of Boolean data type are True and false

We write - True , False , T should be capital and F should be capital

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

Ans – 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 - And Boolean operator = a = 10 b =20 print( a<b and a>b) = False

print(a<b and b>a) = True

OR print(a<b or a>b) = True

print(a>b or b<a) = False

NOT print(not a) = False

print( not b) = False

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?

Ans = greater then > , smaller < , != not equal to , == equal to , >= greater then equal to

<= less then 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.

Ans –Equal to we can use == double and for assigning we can use = single

When we are using = equal then we are assigning value to some variable

However when we using == we used for checking the condition

a = 10 ,if a==10:

print(" a is double equal to 10")

else:

print("a is not equal to 10")

7. Identify the three blocks in this code:

spam = 0

if spam == 10 = 1ST BLOCK

print('eggs')

if spam > 5: = 2ND BLOCK

print('bacon')else

print('ham') = 3 RD BLOCK

print('spam')

print('spam') This

THIS CODE IS BLOCK BECAUSE OF SPACE , IDENTATION IS NOT CORRECT

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 = 1

if spam == 1:

print("Hello")

elif spam == 2:

print("Howdy")

else:

print("Greetings!")

we can change the value of spam , if we write 2 then we get the result howdy and in 3 we get a result of greeting

9.If your programme is stuck in an endless loop, what keys you’ll press?

Ans – Restart kernal or ctrl + c

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

Ans = Break , exits the loops entirely , and stop where one prior digit

Continue - doesn’t stop the iteration but it skip the current iteration and move to the next

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

Ans = in range (10) it will start automatically with zer0 and end with 9

in range(0,10) it will start with zero and end in 9, if inplace of zero , 1 is there so it start with 1

And in range (0,10,2) it will start with zero and end in 9, but 1 will increment if we write 2 so result will be 0 , 2, 4, 6 ,8 stops

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)

Iand for while 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?

Spam = bacon()