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

Ans:- There are 2 values. True and False.

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

Ans:- 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).

x	y	AND	OR	NOT
0	0	0	0	1
0	1	0	1	0
1	0	0	1	0
1	1	1	1	1

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:-

==   Python Equal

!=   Python Not equal

>   Python Greater than

<   Python Less than

>=   Python Greater than or equal to

<=   Python Less than or 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:-

'==' this is equals to operator used for comparison.

'=' this is assignment operator, used to store values in a variable.

Example:- a,b=4,5   if(a==b)

              P=50

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')

Block-1

Block-2

Block-3
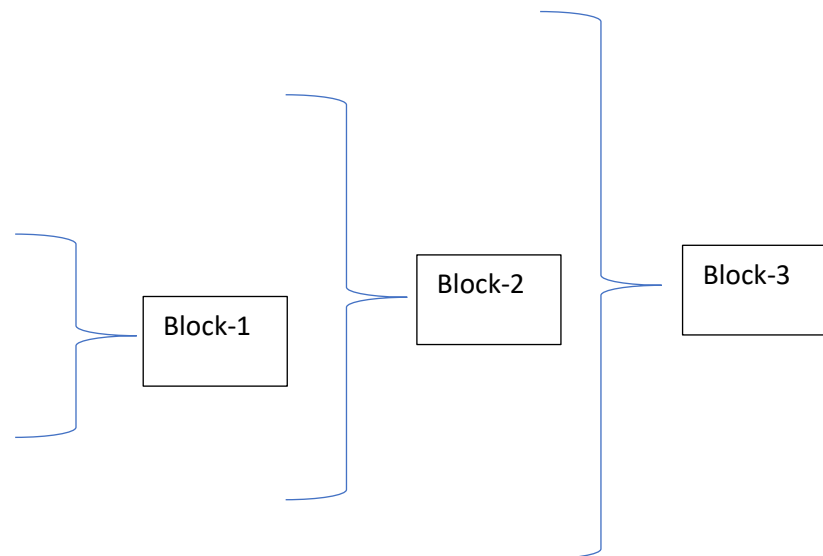
8. Write code that prints Hello if 1 is stored in spam, prints Howdy if 2 is stored in spam, and prints Greetings! if anything else is stored in spam.

spam = int(input("Enter value of spam"))

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 twice

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

Ans:-   In **break**, control will get exit from the loop. In **continue**, the control will skip lines written next to continue and control moved back to top of the loop.

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

Ans:- No difference

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.

1) for i in range(1,11):

   print(i)

2) i=1

   while(i<11):

        print(i)

        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()