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

Ans)AND ,OR

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 ).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| AND | | | OR | | |
| TRUE | TRUE | **TRUE** | TRUE | TRUE | **TRUE** |
| TRUE | FALSE | **FALSE** | TRUE | FALSE | **TRUE** |
| FALSE | TRUE | **FALSE** | FALSE | TRUE | **TRUE** |
| FALSE | FALSE | **FALSE** | FALSE | FALSE | **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) >,>=,<,<=,==,!=

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

Ans)=(assignment operator)

==(Equals to)

A=10(used to store a value) and a=10,a==10(condition becomes true for this condition)

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print('eggs')=1st block

if spam > 5:

print('bacon')-2nd block

else:

print('ham')

print('spam')

print('spam')-3rd block

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.

Ans) spam = 0

if spam == 10:

print('eggs')

if spam > 5:

print('bacon')

else:

print('ham')

print('spam')

print('spam')

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

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

Break:It will terminate the loop when the condition is true

Continue:it will continue the loop even after the condition is true

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) For loop:

for i in range(1,11):

print(i)

while loop:

a=1

while a<11:

print(a)

a+=1

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

Ans)bacon()