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

Ans: True

False

It is written True, False

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

Ans: 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 ).

(i) OR

0 0 0

0 1 1

1 0 1

1 1 1

(ii) AND

0 0 0

0 1 0

1 0 0

1 1 1

(iii) NOT

1. 1
2. 0

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?

==, >, <, =>, <=, =

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 operator is == and assignment operator is =.

5==5

This is true

X=5 means 5 is assign to x

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print('eggs')

if spam > 5:

print('bacon')

else:

print('ham')

else:

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.

if spam = 1 :

print(“Hello”)

elif spam = 2:

print(“Greetings!”)

else :

print(“anything”)

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?  
break is a reserved keyword means to break(discontinue) the loop and continue is a reserved keyword where it will be going in infinite loop.

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

Ans. There is no difference between range(10) and range (0, 10), it means it will count from 0 to 9 whereas range (0, 10, 1) means it is jumping one position.

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.

for i in range(1, 11):

print(i)

a = 0

b = 9

while a <= b :

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?

Spam.bacon()