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

Ans :

True or False

1 and 0

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 ).

x and y Returns

True and True True

True and False False

x or y Returns

True or True True

True or False True

not x Returns

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?

== Equal

!= Not equal

> Greater than

< Less than

>= Greater than or equal to

<= 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.

Equal operator is used for comparing the two variables

Assignment operator is used to assigning the value to avariable.

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')

ham

spam

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 = 1 # Change the value of 'spam' variable to test different cases

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?

Ctrl + C

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

Break will exits from the remainig statements or loop

Continue will continue the next statement or loop

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

Range(10) - numbers starting from 0 up to 10-1 =9

Range(0,10) - numbers starting from 0 up to 10-1 =9

Range(0,10,1) -numbers starting from 0 up to 10-1 =9 with one increment

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)

i=1

while i<=10:

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?

import spam

spam.bacon()