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

There are two values of Boolean data type: 1) True 2) False

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

There are three Boolean operators: 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 ).

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | AND | OR |
| 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 |
| 1 | 0 | 0 | 1 |
| 1 | 1 | 1 | 1 |

|  |  |
| --- | --- |
| A | NOT A |
| 0 | 1 |
| 1 | 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.

Assignment operator : It is the operator that assigns value

A = 7

B = 10

Equal to operator : It compares two values

A == B – compares A and B

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')

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”)

if spam == 2:

print(“Howdy”)

else:

print(“Greetings”)

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

Press **CTRL + C.**

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

Difference between break and continue

Oct = 31

for i in range Oct:

if i == 2:

break

print(“Oct 2 - Gandhi Jayanti”)

for i in range (Oct):

if i == 2:

continue

print(i)

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

range(10) – from initial value 0 to 9

range(0,10) – from 0 to 9

range(0,10,1) – 0 to 10 in the interval of 1

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.

i =0

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?

Spam.bacon()