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

True ,False

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

Not, and, or

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 ).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| INPUT1 | INPUT2 | OUTPUT |  | INPUT1 | INPUT2 | OUTPUT |  | INPUT | OUTPUT |
| True | True | True |  | True | True | True |  | True | False |
| True | False | True |  | True | False | False |  | False | True |
| False | True | True |  | False | True | False |  |  |  |
| False | False | False |  | False | False | False |  |  |  |

OR AND NOT

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.

= is an assignment operator .It assign the value in the right side to the variable in left side.

== is equal to, is a comparison operator.It will check whether the given operands are equal or not.

Consider the code below,

A=10

B=5

If A==B;

Print(“both are equal”)

Else;

Print(“both are unequal”)

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')

first if block, second if block, third else 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.

Spam = int(input())

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?

Control+c

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

The break statement terminates the loop it is containing. And it will go to codes out of the loop.

Continue will skip the current iteration and will go to the next iteration in the loop

Continue statement term

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

There is no change for all of these

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 j in range(1,11):

print(j)

i=1

while i<=10:

print(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()