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

Ans: True,False

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 | False | False | True |
| False | True | False | True |
| false | False | false | False |

|  |  |
| --- | --- |
|  | Not |
| true | False |
| 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?

Ans: >,<,>=,<=,==,!=

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: (==) if a==10

Assignment : (=) a=10

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')

Ans:

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.

Ans:

spam =input(‘what is spam’)

if spam == 1:

print('Hello')

elif spam ==25:

print(Howdy')

else:

print(''Greetings ')

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

Ans:escape

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

Ans:break terminates the loop function,continue only skips the operation for that particulat iteration

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

Range(10):gives the first 10 numbers

Range(0,10):says to start at 0 and 10 numerics to be printed

Range(0,10,1):it says to stary the numbers a 0,and print 10 numbers ,with a jump of 1

\*but in all the above cases output is

(0,1,2,3,4,5,6,7,8,9)

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(10):

Print(i)

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()