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?

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:

x and y Returns

True and True True

True and False False

False and True False

False and False False

OR:

x or y Returns

True or True True

True or False True

False or True True

False or False False

NOT Truth Table

not x Returns

not True False

not False True

4. What are the values of the following expressions?

(5 > 4) and (3 == 5)

Ans: False

not (5 > 4)

Ans: False

(5 > 4) or (3 == 5)

Ans: True

not ((5 > 4) or (3 == 5))

Ans: False

(True and True) and (True == False)

Ans:False

(not False) or (not True)

Ans: 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.

assignment operator =

ex: a=10

Equal operator ==

ex : a=10

b= 10

a==b (equal operator)

returns boolean result. in the above it returns True

assignment operator has one '=' it assigns the value to variable. where as equal operator

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')

output:

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.

ans:

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?

Ans: Ctrl+c

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

Ans: break : break statement stops the loop in which the statement is placed

continue: continue statement skips a single iteration in a 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 all are same ranging from 0 to 10.

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 program:

for i in range(1,11):

print(i)

While program:

i=1

while(i<=10):

print(i)

i++

13. If you had a function named bacon() inside a module named spam, how would you call it after importing spam?

spam.bacon()