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

Ans : True and False

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

Ans. 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 ).

Ans. True and True = True

True and False = False

False and False = False

True or False = True

True or True = True

False or False = False

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.

Ans. == is the equal condition when you chose.

and = is used for store value.

Ex. - s = 10 (this is store value )

if s ==10: (this is is condition)

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 : First of all correct indentation is

spam = 0

if spam == 10:

print('eggs')

if spam > 5:

print('bacon')

else:

print('ham')

print('spam')

print('spam')

Run : ham

spam

spam

If condition is not sustain because spam = 0 and else condition is right for it. that's a reason print only three word in else condition.

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 = int(input("select a number - "))

if spam == 1:

print("Hello")

if spam == 2:

print ("Howdy")

else:

print("Greetings!")

Statement : if you inter a value 1 then it will show hello and when you type 2 it will show howdy and when you enter a another value show greetings!

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

Ans. Ctrl + c break the infinite loop and exit

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

Ans. if loop is endless then we can use break then loop will stop and continue use for print continue values except continue value.

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

Ans . In for loop range is a define the value is between in this range ex:

range (10) & range (0, 10) are equal means : range between 0 to 9 (0,1,2,3,4,5,6,7,8,9)

range (0,10,1) : 0 stand for start point and 10 stand for end point and 1 is stand for step.

0 = start point

10 = end point

1 = one step moved

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.

Ans.

for i in range(1,11):

print(i)

or

s = 1

while s<11:

print(s)

s = s+1

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

Ans. spam = spam+1