1. 0What are the two values of the Boolean data type? How do you write them?

Answer- The two values are True(1) and False(0)

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

Answer- The three different types of Boolean operators are

And, Or Not

1. 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- x = 5

y = 8

print("x == y:", x == y)

print("x != y:", x != y)

print("x < y:", x < y)

print("x > y:", x > y)

print("x <= y:", x <= y)

print("x >= y:", x >= y)

4. What are the values of the following expressions?

(5 > 4) and (3 == 5) Ans-False

not (5 > 4)Ams-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-The six operators are- <,><=, >=,== ,!=

6. How do you tell the difference between the equal to and assignment operators? Describe a condition and when you would use one.

Ans-assignment operator- It is used to assign the value to variables where as equal to is used to compare between two operands.

Example-

Spam=10

Spam==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 -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-

spam=int(inpot())

If spam==1:

print(“Hello”)

elif spam==2:

print(“Howdy”)

else:

print(“Greeting!”)

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

Ans- We will interrupt the loop by using ctrl+c.

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

Ans-

Break- It terminates the loop

Continue- It rejects all the statements after it and returns controls to the beginning of the loop. Also It forces to execute the next iteration of the loop

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

Ans-

range(10)-it means the loop will go till 10-1=9

range(0,10)- It means the loop will start from 0 go till 9

range(0,10,2)-It means the loop will start form 0 and go at till 0 with step size as 1

eg 0,2,4,6,8

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(11):

print(i)

i=1

while i<11):

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?

Ans

spam.bacon()