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) ==, or, and

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 ).

X Y X+Y

False False False

False True False

True False False

True True 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.

Ans)

Equal To

|  |  |
| --- | --- |
| Equal To | Assignment |
| It copares the values with two parameter | This assigns the the value to the parameter |
| Operator == | Operator is = |
| A=5 this statement assigns the value 5 to parameter A | A==5 this statement checks whether the value of A is 5 |

7. Identify the three blocks in this code:

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.

spam = 3

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?

Ans)

Ctrl + C

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

Ans) Break statement stops the loop where it is placed. A continue statement skips a single iteration.

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

range(start, stop, step)

range(10) = range(0,10) = range(0, 10, 1) all these three will return the same output, prints return 0..9

range(10) 🡪range(stop)

range(0,10) 🡪range(start,stop)

range(0,10) 🡪range((start, stop, step))

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(1,11):

print(i)

i = 0

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?

Import spam;

Spam.bacon();