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 ).

|  |  |  |
| --- | --- | --- |
| Operator | What it means |  |
| and | True if both are true |  |
| or | True if at least one is true |  |
| not | True only if false |  |

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?

< , <= , >, >=,==,!=

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

The “=” is an assignment operator is used to assign the value on the right to the variable on the left. The '==' operator checks whether the two given operands are equal or not

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')

if, if,else

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=input("enter")

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?

press CTRL + C

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

The break statement terminates the whole iteration of a loop whereas continue skips the current

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

range(10)- sequence 0 to 9

range(0, 10)- sequence starts from 0 and stops at 9

range(0, 10,1)- sequence starts from 0 and stops at 9 with step/interval of 1

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.

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

Import spam as sp

Def bacon() :