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

Ans: True and False or 0 and 1.

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: **AND**

|  |  |  |
| --- | --- | --- |
| I/P | I/P | O/P |
| 1 | 1 | 1 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 0 | 0 | 0 |

**OR**

|  |  |  |
| --- | --- | --- |
| 0 | 0 | **0** |
| **0** | **1** | **1** |
| **1** | **0** | **1** |
| **1** | **1** | **1** |

**NOT**

|  |  |
| --- | --- |
| 1 | 0 |
| 0 | 1 |

4. What are the values of the following expressions?

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

Ans: False

not (5 > 4)

And: 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: For equal to symbol be: ==

And for assignment operator’s symbol: =

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')

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('Enter the number of spam'))

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: Ctrl+C

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

Ans: Break statement terminates the programme while the Continue statement just skip the specific statement of the code

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

Ans: range(10): it starts from 0 to 9

Range(0,10): 0 to 9

Range(0,10,1): start from 0 to 9 by 1 step increment

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(0,11):

    print(i)

i=0

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=10

def bacon():

    print(spam)

bacon()