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

Ans:The two type of Boolean datatypes are 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 ).

|  |
| --- |
| A B AND OR  T T T T  T F F T  F T F T  F F F F |

|  |
| --- |
| NOT(A=TRUE) = 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:The 6 comparison operator are:

i)<

ii)>

iii)<=

iv)>=

v)==

vi)!=

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

**Ans:The sign for equal to is “==” and the sign for assignment operator is “=”.**

For eg:The “==” is used for comparison as if two things are equal or not and “=” is used for assignment a result of a expression to the left side of the operator i.e a variable.

7. Identify the three blocks in this code:

Ans:The three blocks are highlighted below.

|  |
| --- |
| **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 = input()*

*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:The “break” stops the loop and “continue” just skips the current iteration

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

Ans:They would do the same thing because they will generate the same range.

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)

a=1

b=10

while a<=b:

    print(a)

    a=a+1

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

Ans:import spam

Spam.bacon()