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

Ans: Two values of Boolean data type: 0 and 1

It is written as False and true respectively.

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

Ans: 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 ).

|  |  |  |
| --- | --- | --- |
| Operand1 | Operand2 | Operand1 AND Operand 2 |
| True(1) | True(1) | True(1) |
| True(1) | False(0) | False(0) |
| False(0) | True(1) | False(0) |
| False(0) | False(0) | False(0) |
| Operand1 | Operand2 | Operand1 OR Operand 2 |
| True(1) | True(1) | True(1) |
| True(1) | False(0) | True(1) |
| False(0) | True(1) | True(1) |
| False(0) | False(0) |
| Operand | Not(Operand) |
| True(1) | False(0) |
| False(0) | True(1) |

4. What are the values of the following expressions?

(5 > 4) and (3 == 5):Ans:False(0)

not (5 > 4):Ans: False(0)

(5 > 4) or (3 == 5):Ans: True(1)

not ((5 > 4) or (3 == 5)):Ans: False(0)

(True and True) and (True == False):Ans:False(0)

(not False) or (not True):Ans:True(0)

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:==(compares whether both values are same or not)

Assignment operators: assign values to variables(x=2,y=3 where x assumes value 2 and y as 3 untill modified.

7. Identify the three blocks in this code:

spam = 0 Ans:Value Assignment

if spam == 10: Ans: If condition

print('eggs')

if spam > 5: Ans: If condition

print('bacon')

else: Ans: else block

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(enter spam value)

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 keys

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

Ans: Break statement makes the control come out of loop

Continue statement takes the control for next iteration

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

Ans:No difference .Range will take value for 0 to 9

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)

I=1

While i<11:

print(i)

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: This function can be called with spam. bacon()