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

**Ans: True and False are the two values of the Boolean data type. True() , 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 ).**

**Ans:**

* **True OR True is True**
* **True OR False is True**
* **False OR True is True**
* **False OR False is False**
* **True and True is True**
* **True and False is False**
* **False and True is False**
* **False and False is False**
* **Not True is False**
* **Not False is True**

**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?**

**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: ‘==’ is the assignment operator which can be used for the comparison of the value, ‘=’ is the assignment operator that stores the value**

**7. Identify the three blocks in this code:**

**spam = 0**

**if spam == 10:**

**print('eggs') – #Block -1**

**if spam > 5:**

**print('bacon') - #Block -2**

**else:**

**print('ham')**

**print('spam')**

**print('spam') #Block -3**

**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: 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: press ctrl+c.**

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

**Ans: Continue: goes to the top of enclosing loop**

**Break: exits from the loop when the condition occurs**

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

**Ans: By default all gives the same output range(0,10,1) represents start from 0 end at 10 with 1 increment in between which is the default in range(10) and range(0,10)**

**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(11):**

**print(i)**

**i = 0**

**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: spam.bacon()**