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

**Ans**: True and False are two values of Boolean data type.

V = True

V = False

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

**Ans**: and, or, not are three Boolean operators.

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**:

**Truth Table for and operaotor**  
*True and True is True  
True and False is False  
False and True is False  
False and False is False*

**Truth Table for or operaotor**  
*True and True is True  
True and False is True  
False and True is True  
False and False is False*

**Truth Table for not operaotor**  
*True not is False False not is True*

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**: ==, >, >=, <, <=, !=

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 an assignment operator whereas == is an comparison operator.

1. A = 5
2. If a==5:

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')

**Ans**:

Block-1 -

if spam == 10:

print('eggs')

Block-2 –

if spam > 5:

print('bacon')

Block-3 –

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**:

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**: break will break the iteration or the code inside block whereas continue will keep on executing next lines in the code.

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

**Ans**: There is no difference all the statements will give same output just the number of parameters passed are different.

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**:

1. for i in range(10):

print(i)  
2. A=1

while (A<11):

print(A)

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

**Ans**: We can call the function using - spam.bacon()