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

Ans: True and False ,using capital T and F , with the rest of the word in lowercase.

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 and True is True

True and False is False

False and True is False

False and False is False

True or True is True

True or False is True

False or True is True

False or 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: ==, !=, <, >, <=, and >=

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 equal to operator that compares two values and evaluates to a boolean, while = is the assignment operator that stores a value in a variable.

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: the three blocks are everything inside the if statement and the lines print(‘bacon’) and print(‘ham’)

print(‘eggs’)

if spam >5:

print(‘bacon’)

else:

Print(‘ham’)

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: Press CTRL-C to stop a program stuck in a endless loop.

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

Ans: Break: It is used with the switch statement and it can also use it within the loops.

Continue: It is not used with the switch statement and it can be used within loops.

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

Ans: range(10)- It takes one argument (stop) and it prints 0 1 2 3 4 5 6 7 8 9

range(0,10)- It takes two arguments (start,stop) and it prints 0 1 2 3 4 5 6 7 8 9

range(0,10,1)- It takes three arguments (start,stop,step) and it prints 0 1 2 3 4 5 6 7 8 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): #Using for loop

print(i,end=” ”) # 1 2 3 4 5 6 7 8 9 10

Using while loop

i=1

While(i<=10):

Print(i,end=” ”)

i +=1 # 1 2 3 4 5 6 7 8 9 10

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()