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

True and False are two values of Boolean data type. Write them as ‘True’ and ‘False’.

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

AND, OR & NOT

**3. Make a list of each (i.e. every possible combination of Boolean values for the operator and what it evaluate ).**

False AND False = False

False AND True = False

True AND False = False

True AND True = True

False OR False = False

False OR True = True

True OR False = True

True OR True = 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)

False

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?**

==, !=, <, <=, >, >=

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

If single equal to is used then it is assignment while double equal to is comparison

e.g. a=5 is assignment of 5 to a

a==5 return True is value of a is 5 hence it is checking

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

spam = 0 #block A

if spam == 10: #block A

print('eggs') #block B

if spam > 5: #block B

print('bacon') #block C

else: #block B

print('ham') #block C

print('spam') #block C

print('spam') #block C

**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.**

a=input('Enter value to be stored in spam: ')

if a=='1':

print('Hello')

elif a=='2':

print('Howdy')

else:

print('Greetings!')

**9.If your programme is stuck in an endless loop, what keys you’ll press?**

Cntrl+F2 in Pycharm or stop button in any compiler

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

Break command breaks the current iteration even it is true while continue command continue to next iteration even it is False

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

Range(10) is 0,1,2,…,8,9.

Range(0,10) is same as above

Range(0,10,1) is also same.

**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.**

**Using FOR loop**

for i in range(1,11):

print(i)

**Using WHILE loop**

i=1

while i<11:

print(i)

i+=1

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

spam.bacon()