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

True , False

a = True

b = False

2. What are the 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 ).

AND OR

T F F T

F T F T

T T T T

F F F F

NOT

True False

False True

4. What are the values of the following expressions?

(5 > 4) and (3 == 5)

not (5 > 4)

(5 > 4) or (3 == 5)

not ((5 > 4) or (3 == 5))

(True and True) and (True == False)

(not False) or (not True)

False

False

True

False

False

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.

assignment operator is used to assign some vale to the variable

a = 5

equal to operator is used to compare two values

b == c

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')

spam = 0

if spam == 10: #Block 1

print("eggs")

if spam > 5: #Block 2

print("bacon")

else: #Block 3

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.

spam = int(input("Enter 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?

Ctrl+C --to stop program

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

break ---The break statement is used to terminate the loop immediately when it is encountered

Continue --- The continue statement is used to skip the current iteration of the loop and the control flow of the program goes to the next iteration.

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

range(10) -- it will take values starting from 0 to 9 numbers

(0,1,2,3,4,5,6,7,8,9)

range(0,10) -- it will take values starting from 0 to 9 numbers

(0,1,2,3,4,5,6,7,8,9)

range(0,10,1) -- it will take values starting from 0 to 9 numbers and step value as 1

(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.

for i in range(1,11):

print(i)

-----while-------

i = 0

while i < 10:

i += 1

print(i)

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

import spam

variable = spam.bacon()