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

Sol:- true and false. Where true = 1 and false = 0

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

Sol:- 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 ).

Sol:-

And | Or | Not

1 0 0| 1 0 1 | 1 ->0

1 1 1| 0 1 1 | 0->1

0 1 0| 1 1 1 |

0 0 0| 0 0 0 |

4. What are the values of the following expressions?

Sol:- (5 > 4) and (3 == 5) -> false or 0

not (5 > 4) -> false or 0

(5 > 4) or (3 == 5) -> true or 1

not((5 > 4) or (3 == 5)) -> false or 0

(True and True) and (True == False) ->false

(not False) or (not True) -> true

5. What are the six comparison operators?

Sol:- >,<,==,>=,<=,!=

6. How do you tell the difference between the equal to and assignment operators?Describe a

condition and when you would use one.

Sol:- for assignment we use = , for eual to we use ==. For checking two variable if they are equal we use a==b. if they are same it returns true else it return false. To assign a value to variable we use = .

A =2 . assigning 2 value to A.

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')

sol:- ham

spam

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.

Sol:

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?

Sol:- CTRL-C

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

Sol:- break statement is used to come out of loop.

Continue is used to skip current iterations and execute very next iteration.

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

Sol:- No difference in the output .All gives same output.

Values from 0 – 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.

Sol:-

For loop:-

for i in range(1,11):

print(i)

while loop:

i = 1

while i<=10:

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?

Sol:-

import spam as sp

sp.bacon()