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

Ans) two types.True and False

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)

| input1 | input2 | OR - Output |
| --- | --- | --- |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 1 |

| input1 | input2 | AND - Output |
| --- | --- | --- |
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

| input | NOT - output |
| --- | --- |
| 0 | 1 |
| 1 | 0 |

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?

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

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

>>> a = 10 # assignment

>>> if a ==10: # equal

print(“this is the difference”)

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:

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.

spam = int(input())

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

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

break statement leads to an immediate exit of the innermost switch or enclosing loop

continue statement begins the next iteration of the while

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

in terms output all are same,

but as per syntax the no.of parameters change.

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.

i=1

while i<11 :

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?

spam.bacon() #this is how i call it