1. What are the Boolean data type's two values? How do you go about writing them?

**Ans :**Boolean data types are **True , False.**

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

**Ans:** 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 ).

**Table:**

True and True is True

True and False is False

False and False is False

False and True is False

True or True is True

True or False is True

False or False is False

False or True is True

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 different types of reference operators?

**Ans** : Arithmetic, Logical, Comparison, Assignment, Bitwise , Precedence

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

**Ans:** Equal to represented as “==”

Assignment is represented “=” and

7. Describe a condition and when you would use one.

If condition : We use this condition only when it satisfy the given condition other wise it will come out of the loop.

8. Recognize the following 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:** As 0== 10 is False so it will come out of the loop and give the output as **spam**

9. Create a programme that prints. If 1 is stored in spam, prints Hello; if 2 is stored in spam, prints Howdy; and if 3 is stored in spam, prints Salutations! if there's something else in spam.

**Solution:**

spam= int(input("enter a value"))

if spam ==1:

  print("Hello")

elif spam ==2:

  print("Howdy")

elif spam ==3:

  print("Salutation!")

else:

  print("Sorry i did'nt understand")

10.If your programme is stuck in an endless loop, what keys can you press?

**Ans :** Ctrl+C

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

Ans: break is used to terminate the iteration once the condition is satisfied , in **continue** control will come to the beginning of the loop till it complete the whole iterations .

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

**Ans** In output same for range(10), range(0,10) and range(0,10,1).

In range(10) we are not defining only where iteration has to stop.

In range(0,10) we are defining both star and stop

In range(0,10,1) we are defining start , stop and how many step the control jump

13. Using a for loop, write a short programme that prints the numbers 1 to 10 Then, using a while loop, create an identical programme that prints the numbers 1 to 10.

**For Loop**

for i in range(0,11):

  i= i+1

  print(i)

  if i==10:

    break

**While Loop:**

i=0

while i < 10:

  i=i+1

  print(i)

  continue

14. If you had a bacon() function within a spam module, how would you call it after importing spam?

**I do no have any idea**