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

Ans. Boolean has two types of data type -True and False

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

Ans. 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 ).

Ans. Ans:- True and True is True.

True and False is False.

False and True is False.

False and False is False.

True or True is True.

True or False is True.

False or True is True.

False or False is False.

not True is False.

not False is True.

True is 1 and False is 0

Truth Table for AND  
A B output  
0 0 0  
0 1 0  
1 0 0  
1 1 1  
Truth Table for OR  
A B output  
0 0 0  
0 1 1  
1 0 1  
1 1 1  
Truth Table for NOT  
A 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?

Ans. ==,<=,>=,<,>,!=

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

Ans. = Assignment Operators => Through this operator RHS value is assign to LHS or stores the value in a variable

== equal to opeartors => This operator comapare the LHS and RHS Value that both value is same or not.

Give boolean result

For Example

== opeartor

if(2==3){

print(“True”)}

else{

print(“False”)

}

= opeartor

c=1

print(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')

Ans. ==>

spam = 0

if spam == 10:

print('eggs') #block1

if spam > 5:

print('bacon') #block2

else:

print('ham')

print('spam') #block3

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.

Ans. spam=int(input(”Input a number”))

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?

Ans. ctrl+c

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

Ans . The break statement will move the execution outside and just after a loop. The continue statement will move the execution to the start of the loop.

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

Ans. No difference

The range(10) call ranges from 0 up to (but not including) 10, range(0, 10) tells the loop to start at 0, and range(0, 10, 1) tells the loop to increase the variable by 1 on each iteration.

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.

Ans. 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?

Ans. spam.bacon()