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

Ans Two values are true and false. Example

state=False

if (conditionworks):

state=True

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

Ans Three different types of boolean operators are 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

OR=

0+0=0

0+1=1

1+0=1

1+1=1

AND=

0.0=0

0.1=0

1.0=0

1.1=1

NOT

0=1

1=0

4. What are the values of the following expressions?

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

not (5 > 4)(ans=False)

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

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

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

(not False) or (not True) (ans=True)

5. What are the six comparison operators?

Ans

The six comparision operators are <,>,>=,<=,==,!=

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 operator assigns values where as equal operator checks if the variable value is equal to a value

x=3 is assignment operator

if x==4:

print(‘False’)

else:

print(True)

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

else:

print('ham')

print('spam')

print('spam')

output-

‘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.

Ans

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 we press control +c

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

Ans Break statement stops the iteration once the condition is met whereas continue statement goes to the next iteration when condition is met.

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

ans range(10) ,range(0,10) and range(0,10,1) gives the same output iteration from 0 to 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.

Ans

i=0

for i in range(10):

i+=1

print(i)

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?

Ans- from spam import bacon