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

Ans.:

True and False.

a=True

b=False

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

Ans. Three Boolean operators are “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. Truth table for and operator-:

|  |  |  |
| --- | --- | --- |
| True | False | False |
| True | True | True |
| False | True | False |
| False | False | False |

Truth table for or operator-:

|  |  |  |
| --- | --- | --- |
| True | False | True |
| True | True | True |
| False | True | True |
| False | False | False |

Truth table for not operator-:

|  |  |
| --- | --- |
| not True | False |
| not False | 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 comparison operators?

Ans. E.g.

a=b equal to

a!=b not equal to

a<b greater than

a<b less than

a<=b less than or equal to

a>=b greater than or equal to

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

Ans. Equal to operator used to compare the two variables and assignment operator is used to assign the value to the variable.

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')

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.

a=int(input("Enter Number:"))  
if a==1:  
 print("Hello")  
elif a==2:  
 print("Howdy")  
else:  
 print("Greeting!")

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.:

Break statement is used to exit from loop.

Continue statement is used to execute the next condition in loop.

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

Ans.: All are same.

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.: Using For loop.

for i in range(11):

print(i)

Using While loop:

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. import spam

Print( Spam.bacon())