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

Ans- two data types are True and 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 ).

Ans- AND OR NOT

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

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

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

4. What are the values of the following expressions?

Ans- (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 – equal operator -- ==( we will use this to check condition) ex- a==b(o/p- False)

Assignment-- =(will use to assign a value to a variable)ex- a=5

7. Identify the three blocks in this code:

spam = 0

if spam == 10:

print('eggs')

---------------------block1------

if spam > 5:

print('bacon')

else:

print('ham')

---------------block2-----------------

print('spam')

print('spam')

----------------lock3----------------------

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=input("enter the value")

if int(spam)== 1:

  print("Hello")

elif int(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- break- will terminate the loop and it won’t go for next iteration

Continue- it will skip the current iteration and jump to next iteration

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

Ans- All will give the same output.

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(11):

Print(i)

-------------------

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()