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

Ans:- 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 ).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | TRUE,TRUE | TRUE,FALSE | FALSE,TRUE | FALSE,FALSE |
| AND | TRUE | FALSE | FALSE | FALSE |
| OR | TRUE | TRUE | TRUE | FALSE |
|  |  |  |  |  |
|  | TURE | FALSE |  |  |
| NOT | FALSE | TRUE |  |  |

4. What are the values of the following expressions?

ANS:-

(5 > 4) and (3 == 5) :- False

not (5 > 4) :- True

(5 > 4) or (3 == 5) :- False

not ((5 > 4) or (3 == 5)) :- True

(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-

= is an Assignment Operator it is used to assign the value of variable or expression, while == is an Equal to Operator and it is a relation operator used for comparison.

Assignment: -

a=10

Comparison: -

if a==10:

print (‘Hi Amar’)

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:- Blocks are highlighted in yellow.

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.

if spam ==1 :

print(‘Hello’)

elif spam == 2:

print(‘Howdy’)

elif 1=1:

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 statement stops the loop in which the statement is placed. A Python continue statement skips a single iteration in a loop.

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

Ans:- No difference.

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 loop

for i in range(1,11):

print(i)

while loop:

i=1

while(i<11):

print(i)

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()