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

Ans:- True and False are two values of Boolean data type ,we can use them by use boolean keyword

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

Ans:- The logical operators and, or and not are also referred to as boolean operators

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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 truth table OR truth table

|  |  |  |
| --- | --- | --- |
| A | B | Y |
| 1 | 1 | 1 |
| 1 | 0 | 0 |
| 0 | 1 | 0 |
| 0 | 0 | 0 |

|  |  |  |
| --- | --- | --- |
| A | B | Y |
| 1 | 1 | 1 |
| 1 | 0 | 1 |
| 0 | 1 | 1 |
| 0 | 0 | 0 |

NOT truth table

|  |  |
| --- | --- |
| A | Y |
| 1 | 0 |
| 0 | 1 |

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4. What are the values of the following expressions?

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

not (5 > 4)

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

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

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

(not False) or (not True)

Ans:- (False) (True)

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5. What are the six comparison operators?

Ans:- comparison operators are < , > , <= , >= , == , !=

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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 (==) is use to check condition where its True or false and assignment operator(=) is use to assign any value to variable

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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:- first block is if spam==10 , second block is if spam >5 and third block is else

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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 = 1

if spam ==1:

Print(“hello”)

if spam ==2:

Print(“howdy”)

else:

print(“greetings!”)

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9.If your programme is stuck in an endless loop, what keys you’ll press?

Ans:- CTRL + C

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

Ans:- break keyword use to break the current loop where continue keyword skip below statements and go to start point of loop

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

Ans:- Range(10) means starting from 0 to 9 , range(0,10) means starting from 0 till 9 , range(0, 10, 1) means starting from 0 to 9 by using 1 steps

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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) | i = 1  while i>11:  print(i)  i++ |
| For loop | While loop |

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13. If you had a function named bacon() inside a module named spam, how would you call it after importing spam?

Ans:- a = spam.bacon()

#here a is variable which store the value which is return by bacon function from spam module

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