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Report on python

Booleans:

- ➤ Booleans represent one of two values they are true , false.
- > To evaluate any expression in Python we get one of two answers either true or false.
- ➤ When we compare two values, the expression is evaluated and then Python returns the Boolean answer.
- ➤ When we run a condition in an if statement, Python returns true or false.
- ➤ It can evaluate the string and a number. Any string is true, except empty strings. Almost any value is evaluated to true, if it has some sort of content.
- > Any number is true, except 0.
- ➤ Any list, tuple, set, and dictionary are true, except empty ones.
- There are not many values that evaluates to False, except empty values, such as (),[],{},"",the number 0, and the value none, and the value False evaluates to False.
- ➤ The bool() function allows you to evaluate any value, and give you true or false in return,

Eg: 1. print(10 > 9) Output: True

print(10 == 9) False

print(10 < 9) False

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2. a = 200
                                      Output: b is not greater than a
  b = 33
  if b > a:
 print("b is greater than a")
else:
 print("b is not greater than a")
Functions that can returns a Boolean Value:
   > Python also has many built-in functions that returns a Boolean value, like
      the isinstance() function, which can be used to determine if an object is of
      a certain data type.
   ➤ The bool() method is used to return or convert a value to a Boolean value
      that is True or False, using the standard truth testing procedure.
        Syntax : bool([x])
   ➤ Eg:
       1. def myFunction():
                                      Output: True
            return True
           print(myFunction())
         2.
                x = 200
                                              Output: True
            print(isinstance(x, int))
         3. class myclass():
                                      Output:
                                                False
             def __len(self):
             return 0
           myobj = myclass()
           print(bool(myobj))
```