CS 197 Bonus
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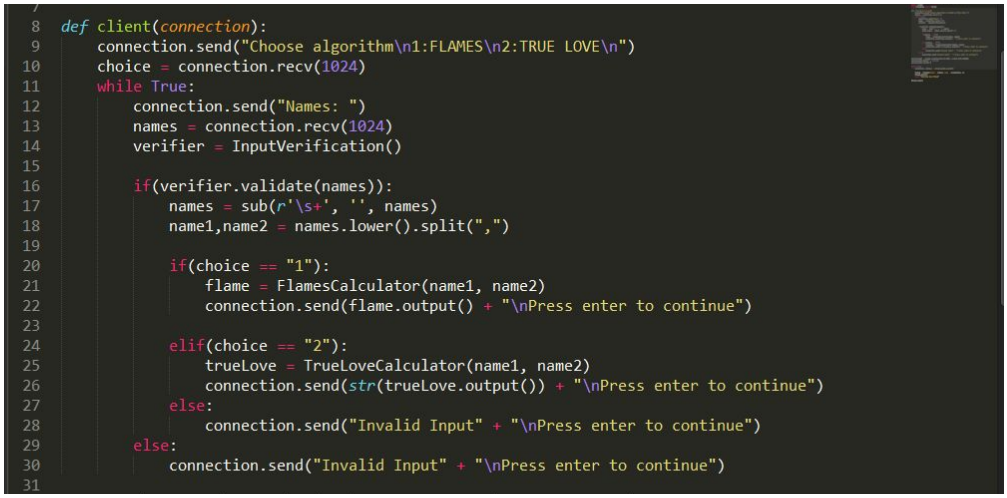
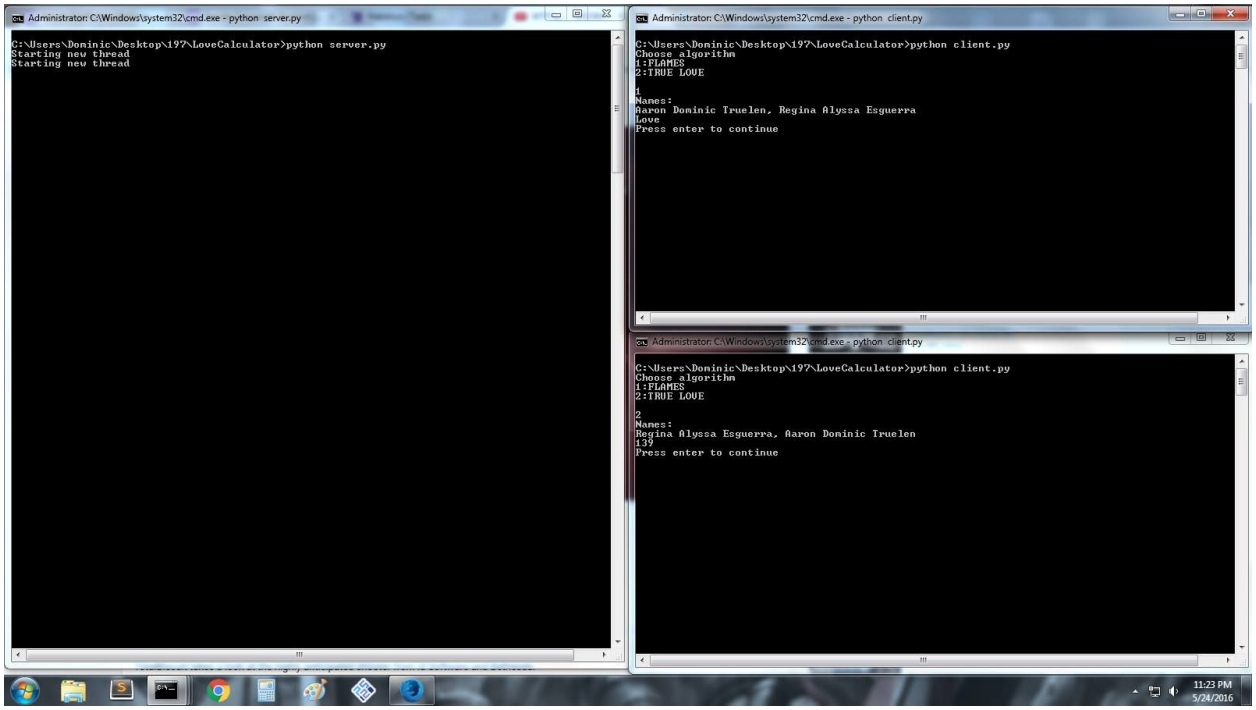
1. Name design patterns you have used, explain them and point which part are they on your application.

   The design pattern we used is strategy which is implemented on the server side when choosing which algorithm to use. This is because the Strategy design pattern allows an algorithm to have different behaviors that is most apt to the situation; the behavior is chosen at runtime which is exactly what is being done in the code as shown in the screenshot below. If FLAMES is chosen, it executes the FLAMES algorithm using FlamesCalculator class. If TRUE LOVE is chosen, it executes the TRUE LOVE algorithm using the TrueLoveCalculator class.



```
def client(connection):
    connection.send("Choose algorithm\n1:FLAMES\n2:TRUE LOVE\n")
    choice = connection.recv(1024)
    while True:
        connection.send("Names: ")
        names = connection.recv(1024)
        verifier = InputVerification()

        if(verifier.validate(names)):
            names = sub(r'\s+', '', names)
            name1,name2 = names.lower().split(",")

            if(choice == "1"):
                flame = FlamesCalculator(name1, name2)
                connection.send(flame.output() + "\nPress enter to continue")

            elif(choice == "2"):
                trueLove = TrueLoveCalculator(name1, name2)
                connection.send(str(trueLove.output()) + "\nPress enter to continue")
            else:
                connection.send("Invalid Input" + "\nPress enter to continue")
        else:
            connection.send("Invalid Input" + "\nPress enter to continue")

```

2. Post a screenshot of the output of partners name.



3. Come up with a malandi app name. Should be unique.

   We came up with the name Umaa-love, as a play on words of Umaalab and Love. The two words are derived from the two algorithms used to calculate the compatibility: from FLAMES, we have derived umaalab which translate to “blazing” since flames are blazing; from True Love we have taken the word Love.