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clientSocket.py:-
Code:-
from socket import *
def problem algo(question):
  type, operand 1, operator, operand 2 = question.split()
  operand1, operand2 = int(operand1), int(operand2)
  if operator == '+':
    return operand1 + operand2
  elif operator == '-':
    return operand1 - operand2
  elif operator == '*':
    return operand1 * operand2
  elif operator == '/':
    return operand1 // operand2
def clientSocket():
  serverName = '127.0.0.1'
  serverPort = 8888
  with socket(AF INET, SOCK STREAM) as clientSocketTcp:
    try:
       clientSocketTcp.connect((serverName, serverPort)) # Making a TCP conn to
server
       clientSocketTcp.settimeout(15)
       #welcome message (handshake)
       initialContact = clientSocketTcp.recv(1024).decode().strip()
       print("Server-side Message: " + initialContact) # message from server
       #sending husky name to server
       northeasternUsername = input("enter your username of Husky ID: ")
       greetServer = "HELLO " + northeasternUsername + "\n"
       print("sending... " + greetServer.strip() )
       clientSocketTcp.send(greetServer.encode())
       while True:
          query = clientSocketTcp.recv(1024).decode().strip()
          print("server: " + query)
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if query.startswith("DONE"):
            print("Recevied Flag: " + query.split()[1])
            break
         elif query.startswith("MATH"):
            ans = problem_algo(query)
           res = "ANSWER "+ str(ans) + "\n"
            print("sending: " + res.strip())
            clientSocketTcp.send(res.encode())
         elif not query:
            print("No data received. Exiting.")
            break
       clientSocketTcp.close()
    except timeout:
       print("connection timeout")
    except ConnectionRefusedError:
       print("500 internal server error i think server is not running")
    except Exception as e:
       print("Error: " + e)
if __name__ == "__main__":
  clientSocket()
Result:-
server: DONE
3F823E7CC6958457B008E2E3E2388F67FF4AFCBE13960AEBCFE4E4C6D5C9CD05
Recevied Flag:
3F823E7CC6958457B008E2E3E2388F67FF4AFCBE13960AEBCFE4E4C6D5C9CD05
```

