

Code:

```
from socket import socket, AF_INET, SOCK_STREAM
```

```
def calculate():
```

```
    if recvCalculate.split(" ")[0] == "Hello":
        str_hello = "HELLO zhao.yuc\n"
        s.send(str_hello.encode())
    elif recvCalculate.split(" ")[0] == "DONE":
        flag = recvCalculate.split(" ")[1]
        print(recvCalculate)
        print('flag = ' + flag)
    elif recvCalculate.split(" ")[0] == "MATH":
        Integer1 = int(recvCalculate.split(" ")[1])
        Integer2 = int(recvCalculate.split(" ")[3])
        Operator = recvCalculate.split(" ")[2]
        if Operator == "+":
            sum = int(Integer1 + Integer2)
        elif Operator == "-":
            sum = int(Integer1 - Integer2)
        elif Operator == "*":
            sum = int(Integer1 * Integer2)
        else:
            sum = int(Integer1 / Integer2)
        answer = 'ANSWER ' + str(sum) + '\n'
        print(recvCalculate)
        print(answer)
        s.send(answer.encode())
```

```
s = socket(AF_INET, SOCK_STREAM)
```

```
s.connect(('127.0.0.1', 8888))
```

```
while True:
```

```
    recvCalculate = s.recv(1024).decode()
```

```
    if recvCalculate == "":
```

```
        break
```

```
    else:
```

```
        calculate()
```

```
s.close()
```

Part of the output:

MATH 595 * 835

ANSWER 496825

MATH 436 - 902

ANSWER -466

MATH 524 + 708

ANSWER 1232

MATH 223 - 929

ANSWER -706

MATH 376 - 206

ANSWER 170

MATH 71 / 863

ANSWER 0

MATH 749 / 913

ANSWER 0

MATH 602 - 955

ANSWER -353

MATH 797 + 901

ANSWER 1698

MATH 255 / 983

ANSWER 0

MATH 979 / 213

ANSWER 4

MATH 544 - 573

ANSWER -29

DONE 611809FA0D6AEEDB369238BCEE02843E9F9834DACE23A91A6F1E83F3A2F8216E

flag = 611809FA0D6AEEDB369238BCEE02843E9F9834DACE23A91A6F1E83F3A2F8216E

>>>

Flag: 611809FA0D6AEEDB369238BCEE02843E9F9834DACE23A91A6F1E83F3A2F8216E