## main.py

```
import
from newton import newton method
from broyden import broyden_method
import <u>math</u>
def main():
   elif (icod == 2):
```

## newton.py

```
import numpy as np
import math

def jacobian(c2, c3, c4):
```

```
36*c2*c4 + 108*math.pow(c4,2), 36*c3*c2 + 216*c3*c4],
4464*c3*math.pow(c4,2),
504*c4*math.pow(c2,2) + 3888*math.pow(c4,2)*c2 + 13392*math.pow(c4,3) +
24*math.pow(c2,3)]
def getPossibleValues(c2, c3, c4, teta1, teta2):
3348*m
def getError(delta x,new x):
def createOutput(c2, c3, c4, counter, error):
```

```
def newton method(teta1, teta2, tol):
alguma dificuldade de convergência!"
```

## broyden.py

```
from
import
def broyden method(teta1, teta2, tol):
```

```
[c2, c3, c4] = newX

outputText += createOutput(c2, c3, c4, counter, error)

newBPart1 = (y-(np.matmul(b,deltaX))*np.transpose(deltaX))
newBPart2 = (np.matmul(np.transpose(deltaX),deltaX))

b = b + ( newBPart1/newBPart2 )

return outputText
```