#Intermediate value theorem

import numpy as np

#Function Definition

def f(x):

y=x\*x+5\*x+6

return y

a=float(input('Enter initial value of a:'))

b=float(input('Enter initial value of b:'))

if f(a)\*f(b)<0:

print('Root lies in the interval [{0}, {1}]'.format(a,b))

elif f(a)\*f(b)==0:

print('Any one initial value may the root')

else:

print('No root lies in the interval [{0}, {1}]'.format(a,b))