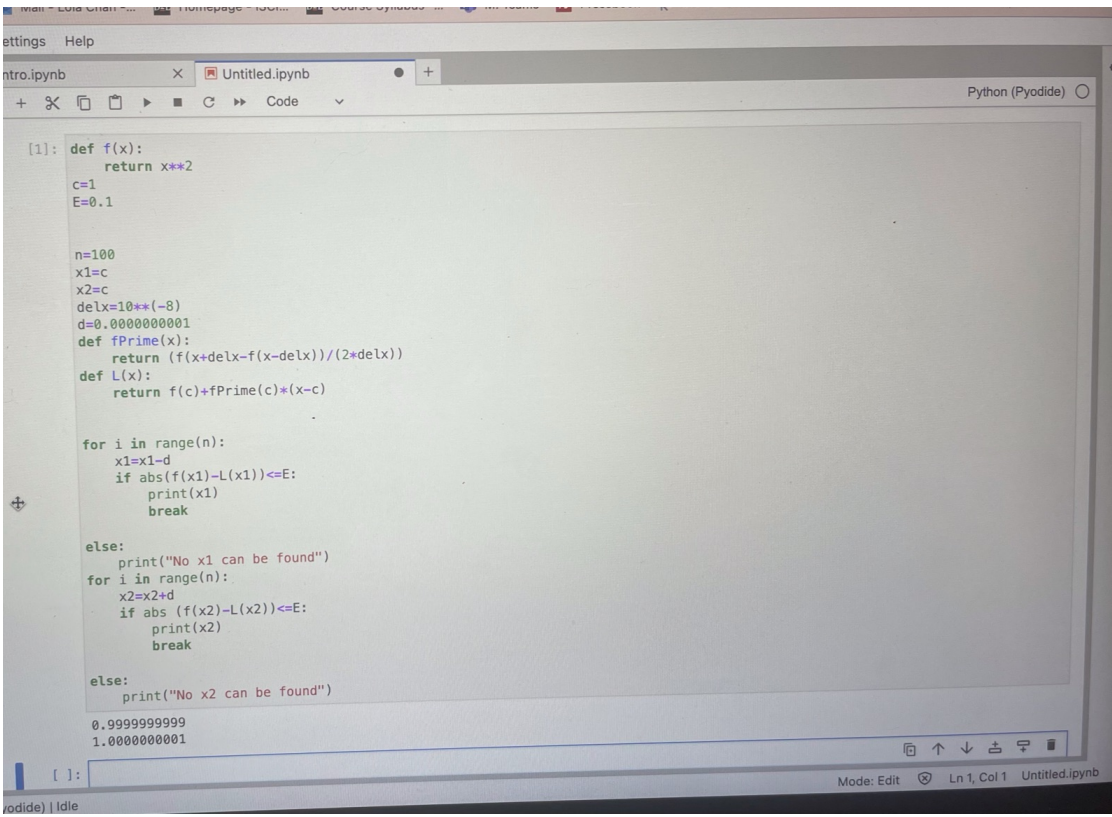
ettings Help
ntro.ipynb
Untitled.ipynb
Code
Python (Pyodide)
[1]:
def f(x):
return x**2
c=1
E=0.1
n=100
x1=c
x2=c
delx=10**(-8)
d=0.0000000001
def fPrime(x):
return (f(x+delx-f(x-delx))/(2*delx))
def L(x):
return f(c)+fPrime(c)*(x-c)
for i in range(n):
x1=x1-d
if abs(f(x1)-L(x1))<=E:
print(x1)
break
else:
print("No x1 can be found")
for i in range(n):
x2=x2+d
if abs (f(x2)-L(x2))<=E:
print(x2)
break
else:
print("No x2 can be found")
0.9999999999
1.0000000001
[ ]:
Mode: Edit
Ln 1, Col 1
Untitled.ipynb
odide) | Idle