```
import numpy as np
from scipy.stats import norm
# define variables
r = 0.01 # risk free rate
S = 24.50
               # Underlying
K = 25.50  # Strike price
T = 8/365 # Time
sigma = 0.3691 # Implied vol
def blackscholes(r, S, K, T, sigma, type="C"):
    "Calculate BS option price for a call/put"
    d1 = (np.log(S/K) + (r + sigma**2/2)*T)/(sigma*np.sqrt(T))
    d2 = d1 - sigma*np.sqrt(T)
    try:
        if type == "C":
           price = S*norm.cdf(d1, 0, 1) - K*np.exp(-r*T)*norm.cdf(d2, 0, 1)
        elif type == "P":
            price = K*np.exp(-r*T)*norm.cdf(-d2, 0, 1) - S*norm.cdf(-d1, 0, 1)
        return price
    except:
        print("Please confirm all option parameters above!")
print("Option Price is: ", round(blackscholes(r, S, K, T, sigma, type="C"), 3) )
Option Price is: 0.186
```