```
from networkx import *
import matplotlib.pyplot as plt

reseau _social=Graph ( )

reseau _social.add _node ( 'alban' )
reseau _social.add _node ( 'béatrice' )

reseau _social.add _edge ( 'alban','béatrice')
reseau _social.add _edge ( 'alban','éric' )
reseau _social.add _edge ( 'alban','fatima' )



draw ( reseau _social, with _labels=True )
plt.draw ( )
plt.show ( )

print ( "nombre de sommets=",reseau _social.number _of _nodes ( ) )
print ( "nombre de arêtes=",reseau _social.number _of _edges ( ) )
print ( "Diamètre=",diameter ( reseau _social) )
print ( "Rayon=",radius ( reseau _social ) )
print ( "Centre=",center ( reseau _social ) )
```