

```
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' )  
reseau_social.add_edge ( 'béatrice','alban' )
```

```
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 ) )
```