Code:

```
import matplotlib.pyplot as plt
import networkx as nx
from networkx.algorithms.community.centrality import girvan_newman
G = nx.karate_club_graph()
communities = girvan_newman(G)
node_groups = []
for com in next(communities):
  node_groups.append(list(com))
print(node_groups)
color_map = []
for node in G:
    if node in node_groups[0]:
      color_map.append('blue')
    else:
      color_map.append('green')
nx.draw(G, node_color=color_map, with_labels=True)
plt.show()
```

Output: