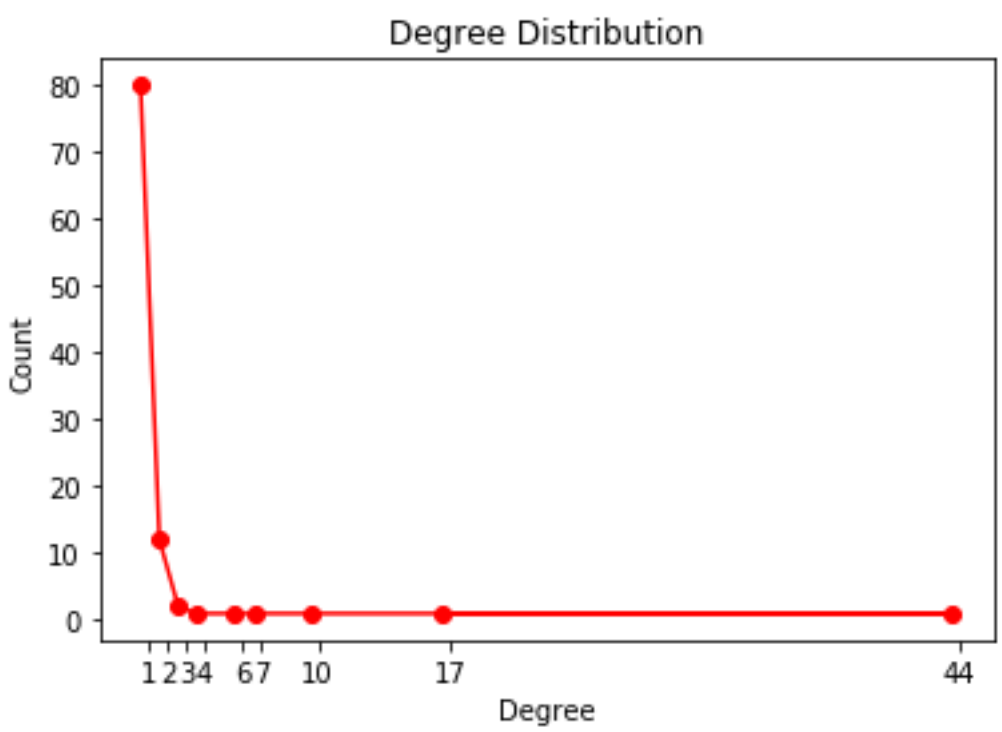
Forest Fire Model:

Growth network graph 100 nodes:

Degree Distribution Analysis :

```
[(0, 2), (1, 44), (2, 17), (3, 1), (4, 10), (5, 1), (6, 2), (7, 1), (8,
7), (9, 1), (10, 2), (11, 6), (12, 2), (13, 4), (14, 1), (15, 1), (16,
1), (17, 1), (18, 2), (19, 1), (20, 1), (21, 1), (22, 1), (23, 2), (24,
1), (25, 1), (26, 1), (27, 1), (28, 2), (29, 1), (30, 1), (31, 1), (32,
3), (33, 1), (34, 1), (35, 2), (36, 1), (37, 1), (38, 1), (39, 3), (40,
1), (41, 1), (42, 1), (43, 1), (44, 1), (45, 1), (46, 1), (47, 1), (48,
1), (49, 2), (50, 1), (51, 1), (52, 1), (53, 1), (54, 1), (55, 2), (56,
2), (57, 1), (58, 1), (59, 1), (60, 2), (61, 1), (62, 1), (63, 1), (64,
1), (65, 1), (66, 1), (67, 1), (68, 1), (69, 1), (70, 1), (71, 1), (72,
1), (73, 1), (74, 1), (75, 1), (76, 1), (77, 1), (78, 1), (79, 1), (80,
1), (81, 1), (82, 1), (83, 1), (84, 1), (85, 1), (86, 1), (87, 1), (88,
1), (89, 1), (90, 1), (91, 1), (92, 1), (93, 1), (94, 1), (95, 1), (96,
1), (97, 1), (98, 1), (99, 1)]

('Avg. degree : ', 10, 'Max. degree : ', 44, 'Min. degree : ', 1)
```



Eigen value Centrality Analysis :

['0 1.00', '1 0.00', '2 -0.00', '3 -0.00', '4 0.00', '5 -0.00', '6 -0.00', '7 0.00', '8 0.00', '9 0.00', '10 -0.00', '11 0.00', '12 -0.00', '13 -0.00', '14 0.00', '15 0.00', '16 -0.00', '17 -0.00', '18 0.00', '19 -0.00', '20 0.00', '21 0.00', '22 0.00', '23 0.00', '24 -0.00', '25 0.00', '26 0.00', '27 0.00', '28 0.00', '29 0.00', '30 -0.00', '31 -0.00', '32 0.00', '33 -0.00', '34 0.00', '35 -0.00', '36 0.00', '37 0.00', '38 0.00', '39 -0.00', '40 -0.00', '41 -0.00', '42 -0.00', '43 -0.00', '44 0.00', '45 0.00', '46 -0.00', '47 0.00', '48 0.00', '49 -0.00', '50 0.00', '51 0.00', '52 0.00', '53 0.00', '54 0.00', '55 0.00', '56 -0.00', '57 -0.00', '58 -0.00', '59 -0.00', '60 0.00', '61 -0.00', '62 -0.00', '63 0.00', '64 0.00', '65 -0.00', '66 -0.00', '67 0.00', '68 0.00', '69 0.00', '70 0.00', '71 -0.00', '72 -0.00', '73 0.00', '74 0.00', '75 -0.00', '76 -0.00', '77 -0.00', '78 -0.00', '79 -0.00', '80 -0.00', '81 0.00', '82 -0.00', '83 -0.00', '84 0.00', '85 0.00', '86 -0.00', '87 0.00', '88 0.00', '89 -0.00', '90 -0.00', '91 -0.00', '92 -0.00', '93 0.00', '94 0.00', '95 0.00', '96 -0.00', '97 -0.00', '98 0.00', '99 -0.00']

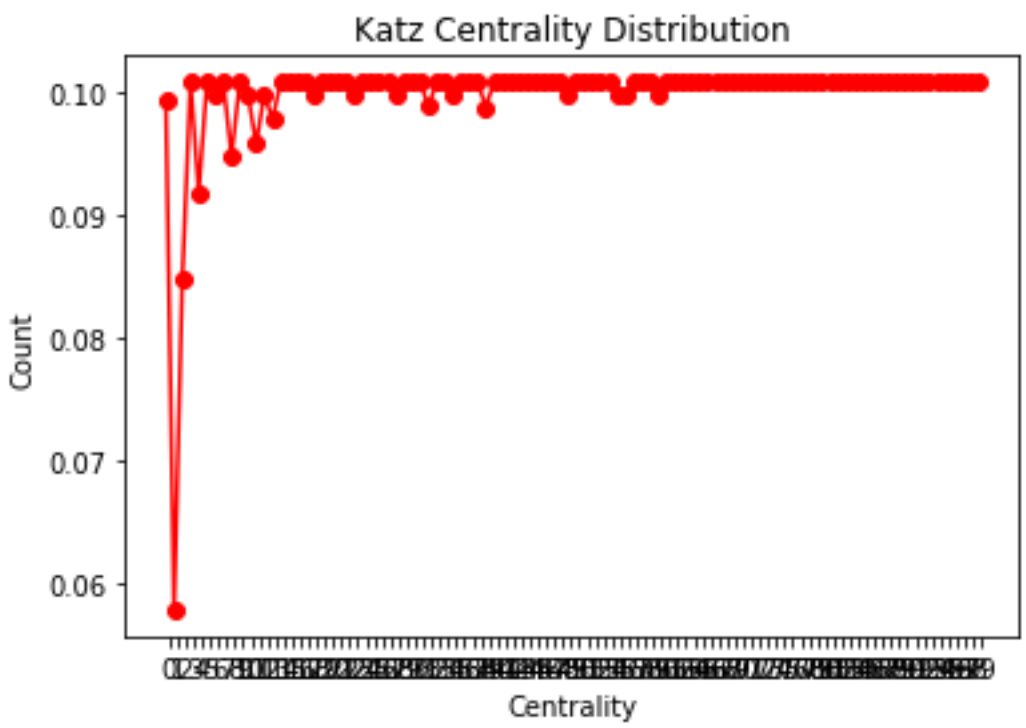
('Max Eigen value : ', 99, 'Min Eigen value : ', 0)

Katz centrality Analysis :

['0 0.10', '1 0.06', '2 0.08', '3 0.10', '4 0.09', '5 0.10', '6 0.10', '7 0.10', '8 0.09', '9 0.10', '10 0.10', '11 0.10', '12 0.10', '13 0.10', '14 0.10', '15 0.10', '16 0.10', '17 0.10', '18 0.10', '19 0.10', '20 0.10', '21 0.10', '22 0.10', '23 0.10', '24 0.10', '25 0.10', '26 0.10', '27 0.10', '28 0.10', '29 0.10', '30 0.10', '31 0.10', '32 0.10', '33 0.10', '34 0.10', '35 0.10', '36 0.10', '37 0.10', '38 0.10', '39 0.10', '40 0.10', '41 0.10', '42 0.10', '43 0.10', '44 0.10', '45 0.10', '46

0.10', '47 0.10', '48 0.10', '49 0.10', '50 0.10', '51 0.10', '52 0.10', '53 0.10', '54 0.10', '55 0.10', '56 0.10', '57 0.10', '58 0.10', '59 0.10', '60 0.10', '61 0.10', '62 0.10', '63 0.10', '64 0.10', '65 0.10', '66 0.10', '67 0.10', '68 0.10', '69 0.10', '70 0.10', '71 0.10', '72 0.10', '73 0.10', '74 0.10', '75 0.10', '76 0.10', '77 0.10', '78 0.10', '79 0.10', '80 0.10', '81 0.10', '82 0.10', '83 0.10', '84 0.10', '85 0.10', '86 0.10', '87 0.10', '88 0.10', '89 0.10', '90 0.10', '91 0.10', '92 0.10', '93 0.10', '94 0.10', '95 0.10', '96 0.10', '97 0.10', '98 0.10', '99 0.10']

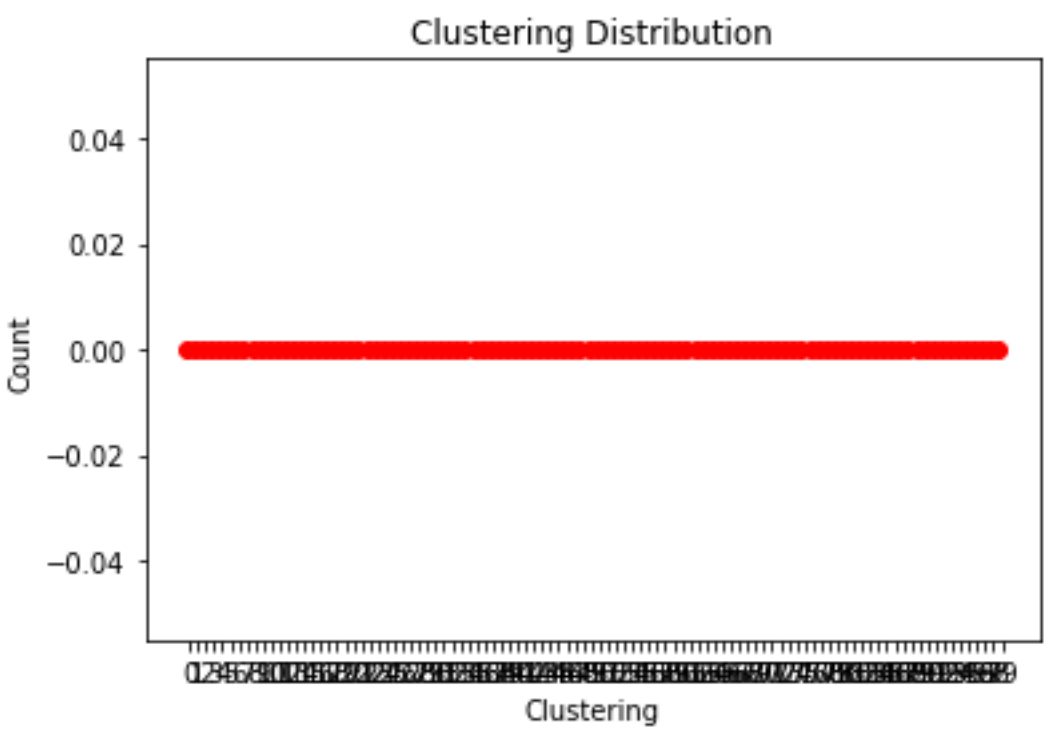
('Avg. katz centrality : ', 49, 'Max. clustering : ', 99)



Clustering coefficients Analysis :

{0: 0, 1: 0, 2: 0, 3: 0, 4: 0, 5: 0, 6: 0, 7: 0, 8: 0, 9: 0, 10: 0, 11: 0, 12: 0, 13: 0, 14: 0, 15: 0, 16: 0, 17: 0, 18: 0, 19: 0, 20: 0, 21: 0, 22: 0, 23: 0, 24: 0, 25: 0, 26: 0, 27: 0, 28: 0, 29: 0, 30: 0, 31: 0, 32: 0, 33: 0, 34: 0, 35: 0, 36: 0, 37: 0, 38: 0, 39: 0, 40: 0, 41: 0, 42: 0, 43: 0, 44: 0, 45: 0, 46: 0, 47: 0, 48: 0, 49: 0, 50: 0, 51: 0, 52: 0, 53: 0, 54: 0, 55: 0, 56: 0, 57: 0, 58: 0, 59: 0, 60: 0, 61: 0, 62: 0, 63: 0, 64: 0, 65: 0, 66: 0, 67: 0, 68: 0, 69: 0, 70: 0, 71: 0, 72: 0, 73: 0, 74: 0, 75: 0, 76: 0, 77: 0, 78: 0, 79: 0, 80: 0, 81: 0, 82: 0, 83: 0, 84: 0, 85: 0, 86: 0, 87: 0, 88: 0, 89: 0, 90: 0, 91: 0, 92: 0, 93: 0, 94: 0, 95: 0, 96: 0, 97: 0, 98: 0, 99: 0}

('Avg. clustering : ', 0.0, 'Max. clustering : ', 99)


Clustering Distribution
0.04
0.02
0.00
−0.02
−0.04
Count
Clustering