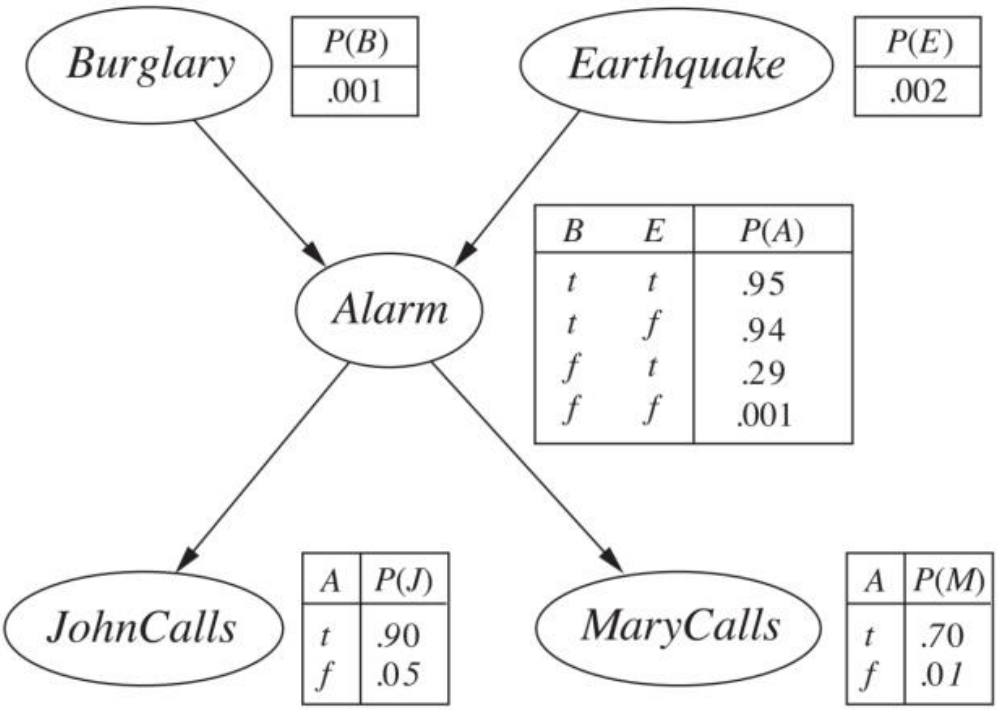
Practical - 6

Program Definition:

Write a python program to implement Bayesian Network to model probabilistic reasoning for a burglary alarm system.



Output:

```
21012021001_ADESHARA BRIJESH
P(J,B) = 0.000849017
P(J',B) = 0.000150983
P(J', B') = 0.9477100412999999
P(J,B') = 0.0512899587
P(M,B) = 0.0006586137999999999
P(M',B) = 0.00034138619999999996
P(M',B') = 0.9879222688199999
P(M,B') 0.01107773118
P(J) = 0.9
P(M) = 0.7
P(J') = 0.1
P(M') = 0.3
P(A) = 0.002516442
P(A') = 0.997483558
P(B|M) = 0.0009408768571428 57
P(B'|M) = 3.2930742293999997
P(B|J) = 0.0009433522222222221
P(B'|J) = 9.477100412999999
```

Name: Adeshara Brijesh G.
Enrollment No: 21012021001
Batch: 6IT-E-1