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Python 3.8.3 (default, Jul  2 2020, 17:30:36) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.16.1 -- An enhanced Interactive Python.

In [1]: 'C:/Technical/MSc/Semester1/Mandatory/Knowledge Representation/GIT/aima-python/Assignment2/A2_COMP9016_PENDSE_SHANKAR_R00195877.PY'      ='C:/Technical/MSc/Semester1/Mandatory/Knowledge Representation/GIT/aima-python/Assignment2'
*******Executing Question 1.1.1***********

Probability distribution table for Study_hard
Always:   0.5,   Never:   0.0217,   Often:   0.261,   Rarely:   0.087,
Sometimes:   0.13


Probability distribution table for Get_rest
Always:   0.0588,   Never:   0.353,   Often:   0.118,   Rarely:   0.118,
Sometimes:   0.353


Probability distribution table for Set_alarm
Always:   0.103,   Never:   0.615,   Often:   0.103,   Rarely:   0.0513,
Sometimes:   0.128



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*******Executing Question 1.1.2***********

Model involving Traffic, FossilFuel, GlobalWarming and RenewableEnergy as nodes:
[('Traffic', ''), ('FossilFuel', ''), ('GlobalWarming', 'Traffic FossilFuel'),
('RenewableEnergy', 'GlobalWarming FossilFuel')]

Model involving AI and Employed as nodes:
[('AI', ''), ('Employed', 'AI')]

Associated conditional Probability tables for model1_1

  GlobalWarming {(True, True): 0.95, (True, False): 0.94, (False, True): 0.29,
(False, False): 0.001}

  RenewableEnergy {(True, True): 0.95, (True, False): 0.94, (False, True): 0.8,
(False, False): 0.001}

Associated conditional probability tables for model1_2

  Employed: {(True,): 0.05, (False,): 0.95}

Running sample queries for model1_1
0.95
0.999
0.06000000000000005

Running smaple queries for model1_2
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0.95
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*******Executing Question 1.2.1***********


Prior Probabilities:
{'B': 0.0784, 'R': 0.4608, 'L': 0.4608}

 Probability of evidences (each row of data):

 [0.0016000000000000005, 0.0016000000000000005, 0.0016000000000000005,
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Probability of likelihood of evidences:

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*******Executing Question 1.2.2***********


Accuracy of Naive Bayes classifier is 92.16 %
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In [2]: