Implementation:

```
Tile Edit Selection View Go Run Terminal Help
                                                                       Burglary.py - Al Experiments - Visual Studio Code
                                                                                                                                                   D = 0 08 -
                                              Burglary.py X
      > AI EXPERIMENTS
                                              Al Experiment-08 (Burglary Alarm) > 9 Burglary.py > 1 did_bantaCall
 O > OUTLINE
                                                    def did_burglary(burglary):
                                                         if burglary is True:
      > TIMELINE
                                                            return 0.01
0
                                                            return 0.99
                                                     def did_earthquake(earthquake):
                                                         if earthquake is True:
                                                               return 0.02
                                                             return 0.98
                                                     def did_alarm(burglary, earthquake, alarm):
                                                         table = dict()
                                                         table['ttt'] = 0.95
                                                         table['ttf'] = 0.05
                                                         table['tft'] = 0.94
                                                         table['tff'] = 8.86
                                                         table['ftt'] = 0.29
                                                         table['ftf'] = 0.71
                                                         table['fft'] = 0.001
                                                         table['fff'] = 0.999
                                                         key = key + t if burglary else key + f
                                                         key = key + 't' if earthquake else key + 'f'
                                                         key = key + 't' if alarm else key + 'f'
                                                         return table[key]
                                                     def did_santaCall(alarm, santaCalls):
                                                          table = dict()
                                                          table['tt'] = 0.9
                                                          table['tf'] = 0.1
```

(Implementation Part - 01)

```
D = 00 00 -
File Edit Selection View Go Run Terminal Help
                                                                      Burglary.py - Al Experiments - Visual Studio Code
                                             Burglary.py X
     > AI EXPERIMENTS
                                             Al Experiment-08 (Burglary Alarm) > • Burglary.py > 🕝 did_bantaCalli
O > OUTLINE
                                                         table['ft'] = 0.05
     > TIMELINE
                                                         table['ff'] = 0.95
                                                         key - key + 't' if alarm else key + 'f'
                                                         key = key + 't' if santaCalls else key + 'f'
                                                         return table[key]
                                                    def did_bantaCall(alarm, bantaCalls):
                                                        table = dict()
                                                        table['tt'] = 8.7
                                                        table['tf'] = 0.3
                                                        table['ft'] = 0.01
                                                        table['ff'] = 0.99
                                                        key
                                                        key = key + 't' if alarm else key + 'f'
                                                        key = key + 't' if bantaCalls else key + 'f'
                                                        return table[key]
                                                    if __name__ -- '__main__':
                                                        ask = bool(input("Hey Deepak Bro, I just wanna ask you a question, should I ?: "))
                                                        if ask is True:
                                                            print()
                                                            print()
                                                            print("Ye raha aapka sawaal, aapke Computer isserrreeen par 👵 : ")
                                                            print()
                                                            print()
                                                            print("What is the probability that the alarm has sounded but neither a burglar nor an earthquake !
                                                            burglary = bool(input("Did burglary happened ? True or False: "))
```

(Implementation Part - 02)

```
D = 1 08 -
1 File Edit Selection View Go Run Terminal Help
                                                                       Burglary.py - Al Experiments - Visual Studio Code
                                              Burglary.py X
     > ALEXPERIMENTS
                                              Al Experiment-08 (Burglary Alarm) > * Burglary.py > * did_bantaCall
                                                             print()
O > OUTLINE
                                                             print()
     > TIMELINE
                                                             print("Ye raha aapka sawaal, aapke Computer isscrrreeen par 🚷 : ")
                                                             print()
                                                             print()
                                                             print("What is the probability that the alarm has sounded but neither a burglar nor an earthquake )
                                                             burglary = bool(input("Did burglary happened ? True or False: "))
                                                             print()
                                                             print("Probability of Burglary : ")
                                                             print(did_burglary(burglary))
                                                             earthquake = bool(input("Did earthquake come ? True or False: "))
                                                             print("Probability of Earthquake : ")
                                                             print(did_earthquake(earthquake))
                                                             alarm = bool(input("Did alarm ring ? True or False: "))
                                                             print("Probability of Alarm ringing : ")
                                                             print(did alarm(burglary, earthquake, alarm))
                                                             santaCalls = bool(input("Deepak Bro ♥ ⑩ , did Santa call you ? True or False: "))
                                                             print("Probability of Santa calling : ")
                                                             print(did santaCall(alarm, santaCalls))
                                                             bantaCalls - bool(input("Deepak Bro ♥, did Banta call you ? True of False: "))
                                                             print("Probability of Banta calling : ")
                                                             print(did_bantaCall(alarm, bantaCalls))
(2)
                                                             print()
                                                             print()
                                                             print("Probability of the above given query is : ")
                                                             print(did burglary(burglary) * did earthquake(earthquake) * did alarm(burglary, earthquake, alarm)
⊗0∆0
                                                                                                                Ln 44, Col 23 Spaces: 4 UTF-8 CRUF Python 3.10.2 64-bit ♥ Go Live P D
```

(Implementation Part - 03)

```
D D D 08 -
Tile Edit Selection View Go Run Terminal Help
                                                                      Burglary.py - Al Experiments - Visual Studio Code
                                             Burglary.py X
    > ALEXPERIMENTS
                                             Al Experiment-08 (Burglary Alarm) > • Burglary.py > 🕤 did_bantaCall
O > OUTLINE
    > TIMELINE
                                                            print("Probability of Burglary : ")
                                                            print(did_burglary(burglary))
                                                            earthquake = bool(input("Did earthquake come ? True or False: "))
                                                            print("Probability of Earthquake : ")
                                                            print(did_earthquake(earthquake))
                                                            alarm = bool(input("Did alarm ring ? True or False: "))
                                                            print("Probability of Alarm ringing : ")
                                                            print(did_alarm(burglary, earthquake, alarm))
                                                            santaCalls = bool(input("Deepak Bro > ⊕, did Santa call you ? True or False: "))
                                                            print("Probability of Santa calling : ")
                                                            print(did_santaCall(alarm, santaCalls))
                                                            bantaCalls = bool(input("Deepak Bro ♥, did Banta call you ? True of False: "))
                                                            print("Probability of Banta calling : ")
                                                            print(did bantaCall(alarm, bantaCalls))
                                                            print()
                                                            print("Probability of the above given query is : ")
                                                            print(did burglary(burglary) * did_earthquake(earthquake) * did_alarm(burglary, earthquake, alarm)
                                                            print()
                                                            print()
                                                            print("Taa taa, Bye Bye 💜 💜 , Khatam")
```

(Implementation Part - 04)

Output:

