15.Write the python program to implement Decision Tree. Program:

from collections import deque

```
class Graph:
def init (self, adjac lis):
   self.adjac_lis = adjac_lis
def get_neighbors(self, v):
   return self.adjac_lis[v]
def h(self, n):
   H = {
     'A': 1,
      'B': 1,
      'C': 1,
      'D': 1
   }
   return H[n]
def a_star_algorithm(self, start, stop):
   open_lst = set([start])
   closed_lst = set([])
   poo = {}
   poo[start] = 0
   par = \{\}
   par[start] = start
   while len(open_lst) > 0:
      n = None
      for v in open_lst:
        if n == None or poo[v] + self.h(v) < poo[n] + self.h(n):
           n = v;
      if n == None:
        print('Path does not exist!')
        return None
```