Ajithram Arya
1BM18CS010

```
Class Graph:
  def __init__(self, n):
      self.Matrix = []
      self.n = n

  def addEdge(self, u, v, w):
      self.Matrix.append([u, v, w])

def printArr(self, dist, src):
    Print("Vector Table of {}", format(chr(ord('A')+src)))
for i in range(self.n):
    Print("{}\t{}".format(chr(ord('A')+i), dist[i]))

def BellmanFord(self, src):

    dist = [99] * self.n
    dist[src] = 0

for _ in range(self.n - 1):

    for u, v, w in self.Matrix:
        if dist[u] != 99 and dist[u] + w < dist[v]:
            dist[v] = dist[u] + w

self.printArr(dist, src)
```