Task of (a).

nxn matrix setting all wats to Euro

thundled the 'index o' vertex on function

call by adding up another vertix.

associated with weight o.

Took 01 (6)

a list of range(n)

appended each aled vertix and veight to converpording edges.

Tark 02:

Ereaded BFS from pseudocade for graph respresentation (using BFS transmet)
- Output as adjacency list; which mas done wring BFS transferal starting from 1st Node

## Tark 03:

- · Handled multiplee input files
- · BFS implementation
  - · intialized empty graph with (NFI) vertices
- . DFS algo explores all the vertices & .

  (neates DFS gray path.

## Tark oy

- . Find My Cycle implements DFS
- by finding cycle return Yes/No
- . My code Handles multiple inputfiles with an additional function

## Tark 05

- . Shoutest path colc was done by using ofs on undirected graph
- keys = city values = hist of nighborry

## Tak of

- " Courts diamond using DFS.
- · starting points (r, c
- · For each un visited cally DFS, Also checks & courts diamonds +
- . Then updates diamond count