1.

- (a) We ensite an adjacency nation of (2+1) or (2011) where is the the number of vertileer is the tension over the given edges and assign the consusporting wedget to the appropriate position in the adjacency rotale.
- (b) Here we create an adjacency let representation of the graph by therating over the edger and appending the datastation vertex and weight as a tiple to the list datastation vertex and weight as a tiple to the list energy to the source renter.
- 2. We perform a Breakth-And Search (BFS) Inaversel on the given graph starting from edy I We do this by using a given graph starting each neighbouring edy in the order they queue and relibering each neighbouring edy in the order they are executered monthly then as wholed to award eyales.
- 3. This robustion penform a lepth food Search (DPS) traversed on the given graph representation of the either and noads, storting the given graph representation of the either and noads, storting them with 1. If does this by recurringly englaning each promisely 1. If does this by recurring englancy in outplot, neighbouring they in sorted order (for constiting in outplot), replaced to avoid eyeles and appending realing them as whited to avoid eyeles and appending them to path.

The rotation detects the eyell by penforming DFS with additional theology of winded and newstand make thater - It dreaks If a winted made have - It dreaks If a winted made to an existence while being in the connect stack.

5. - 13 His ne, une are viny BFS and mointaily a queue of nodes along with their time and posts to the shortest distance and minum time.

6. Here we use DPS to And the mention number of Dismonds that some lowering the blanch encountered, winted eath growth the men diamond went from the whinder governor all possible positions.