Sakshi Srivastava B3 - Batch 1BM18 CS090 import java util &; class Edge { void art falls ( and unit Mi, dut, wi this se Me this dest = dest; this. w=w; boule, add(1) dans Node? ent verler, w public Node ( int vertex, mis w) S this. vertex = vertex this. w=w; our Neap = new Tuenty Bucul class graph & manual dangues Inst (Lust (Edge)) egelist = num; Maph ( inst ( Edge ) edger, int N) } edge bist nus Amay bist 270° fr ( vit i =0; i(a) (++).) edge. Ust. adal new Arraylist () () fr( Edge edge sedges)? edgelist, get (doje su), add (edje) while I make of is bright private étatie void gret Path ( inil I prav. unit i, list/mieger > routi) { getlace (prev, prevti), konti) y (i) =0) soute, add (1) pulet crate void get mortestath ( graph graph, mit me, no ) buontiquene ( N'de) hui Mag nunheap = new Privrity Juene ? (Comparator Comparator Comparator Comparator) - ) node w) muniteep. add ( new No de ( or c, o) 5 List ( Integer ) disti = new Meray List?). 1 Correction, nopiel 1 N, Inte gas MARSVALUED > diff set (MC, O) boolean [] done = new boolean [N]. don [ se ] = true. prix () prev= new unt [a7, cut (Integer) route: new percay (wit ():1) while ( 1 milleap. is Emply ()) Nøde node, min. K six u= node vertex

for (løge edje: graph. edjedist, getter) ]? unt V= edge dest. in w= edge. w. if (Idone(v) a (dust get (u) + w) (dust get(v)).

dust set (v) dust get (u) + w).

ment v) = u.

muri neap. ada (new Node (v, dust get(v)))

} 3 done[u]= tine; for ( mit i=1, i, N, i++) { get Pain pru, i, wird. 5.0.Pm ("Route is of. d ) of. d & numi out = of. d & path is of. s \ n Me, i, dut, get (i), Mutte); sonte deas ().