rimany komas 18M18CS153 I lanestri das IA 8 puzzle using Ax 1 class Node: det_init (seit, data, revel, eval): self. data = dala Self. level - lovel Self. +192 det generale-child (self): rig = self. find (self.dala,'-') Val-list = [[x,y-1], [x,y+1], [x-1,y], [x+2,y]] children = [] for i in val-list: child = self-shuffle (self:data, x, y; (0), (1)) it child = self-shuffle (self-data it child is not none: child - node : Node (child, self-level+1,0) children append (child node)

setuen children.

Vinay Kumas 18M18CSIC3 Class buzzle: det -init-(selt, size): Self n= size Selt. Open = C] Self. closed = [] det accept (self): [] = 504 tor i in sange (o. selt. n) temp = input U. split (" . Ans. appen (femb) setuan puz det + (self, start, goal) Return self. h (start. data, goal) estart. level. det h (selt, start, goal): temp = 0 toe i in range (0, self. n): tol in sange (0, self.n): it "Start CiJCiJ 1 = goal CiJ[i] an starteijeij != '-' temp +=1 getuln tems

> IBMIBCSIEJ Vinay Kuman

```
det process (self):
brint (" Enter State state)
  Start = self, accept()
 boint ("Enter goal state")
  goal = seit. accept ()
   Start = Note (start, 0,0)
    (loop, test) +. Hos = self. + (start, good)
     sett. open. appen (start)
      brint (m)
       while True:
        cus = selt. Open [6]
         brint (" ")
          print (" 1 ")
          Daine (" ((1111))
            tor in cua. data:
                for j'n cook . 80 1
                  print (1; end = " ")
             it (cert. ~ (cor. 900) == 0);
                 break
              for i in case generate-child ().
                   1. tool = selt. + (1,900l)
                      self. open appen all)
                      self. closed append (collent) -
                self. open. sout (key= lambda x:x ofva)
                                        , levelle = False)
       bos = bossle(3)
         buz . process()
```

rivan kriman