```
Exp. No. 2
              (10,1,00) loo 1,00 1 150m
Date:
           Depth first Search
def dfs (maze, x, Y, path):
marifaxion or x > = len (maze) or y < or y > = len
            (maze [o]) or maze [x] [Y] ==1;
     return false (d) of his hard also I have
                                     # check wereach
if (x, Y) == (len (maze) -1, len (maze (0))-1):
    path append ((x,y))
      Return True.
     maze [x][Y]=1
     path append ((x,Y))
                                      # explore
 if (dfs (maze, x+1, y, path) or
                                        neighbours
     dfs (maze, x, y+1, path) or
     dfs (maze, x-1, y, path) or
     dfs (maze, x, Y -1, path)):
    return True
                                      # Backtrack
       path. pop ()
     return False
   def find - path - in - maze (maze):
        Path = []
    if dfs (maze, 0, 0, path)
      return "No path found"
```

```
MARR = [ [0,0,1,0,0], [0,0,1,0,1],
                               H O Noben
                                 1 is wall
       [0,0,0,0,0][1,1,1,1,0],
       [0,0,0,0,0]]
 path = find - path - in-maze (maze)
          Letter to Care
   Print (" Path found: ", path)
    (A si) propos and
                  Die Thomas Line
                  (14,8) purddo grat
            (3 ( riding , 1 + x , > , = 20.1) ofts
          ra (H109 y 11 2 - 250 11) 2/4
            . wit autur
サラフェナイラーマリカ
                       () 1001 : mi
                        alife come
             em) . on a - day - lant 126
Resut:
   Thus the Peogram was executed
successfully on the olp is verified.
```