	Page
8	frogram to Solve me 8-puzzee using BFS.
	(Johnson James - Alega akaja tradus)
[[(,100	from collections import deque and double redd queme.
	dy find blank (board, were to find zero (brank)
	for &i in range (3):
	for j in range (3):
1 3000	14 - busing board (it it = 0;
	Jessam washing selveni jy
1.317.	witay (source, show) gard is
	1 to to accorde
[[] Jarbel]	def generate mores (board): feether to generate
	mosses = []
	blank your, blank-col - find-blank (board)
	possible_moves = [
	(1,0) (-1,0) (0,1) (0,+1)
	I washer they they
(Period 1" Speca to maniful and
	of for dr, de in possible - moves:
	new now, new-col = black now+dr, black col
	medition if of= new row (3 and of= new-col/3:
	new board = [sowo[:] for row inboard]
	new-board [brank_row] [brank_col],
	bour = = 1 copyright new board (new row] [new-col] = new boor
"ii]F=b=	[new row] [new board (blat row) (blat -co
	moves append (new-board)
(11 11 2	stet moves.
	A 1- a se sense sense sense sense se com
BI	def solve-pupple (indial-state, goal-state):
	visited = set () State of their pathos
	queue = deque ([Cintial - Hack, []))]
	(* _ to the star of the star
	A CONTRACT OF THE PARTY OF THE
-	

	while queue!
	that quate path = question
	visited add (tupe (map (tupe, current-state)
- 10	OCCUPATION OF THE PROPERTY OF
I para -	if current state = = goal_state 1
61011	orotin patu
	A some state same and the same and
	possible moves = gurate moves (avount - Hest
	for move in possible - moves!
	if tuple (map (tuple, move)) not in visio
	queux appened ((more, pate + (non
	F 7 = Alexand
	(bead) shaloretinous shall may heald
	I = ASSIGNA - PARTIES
	def punit steps (solution-poth):
	if solution-path:
	penil (" Steps to reach the goal!")
	for step in solution pate ?
المعادية	1 + cor - tend - des - competition")
	plantament by a conforman in step:
	20 10 1: [and] = Decor as print ("]", end = "")
11	a hard Forest heard branch of val in raw:
esol.Outre	: 0 == 0 . Y val == 0:
	or sold broad ain [10 mm] [wer win] puit ("", and?"
	(banch was) Duggo & soulse:
	. som poit (val, end z')
	Da4 /1
	(12 At 2 - 2000 shorter printer (4 2) (200 - 2000) July
Southern	prairie de la companya della companya della companya de la companya de la companya della company
[((=	green - dequel : John Land - socie, l
	prid (" No solustran")
	(

Cath I	initial = C
181	(1, 2, 3], [2, 0, 5], [4, 7, 2]]
lalla	(12/3),[4,8,5),[4,7,2]
181	1 goal = [1501 57 5-] - 1 27
	goal = [[0,1,27,[3,4,57,[4,7,8]]
15 18	print steps (Solution pate)
1 1	111451 1541 1
1818	19 18 19 2 3 3 12 5 4,5,6,78
15/2	11 2 5 3 1 15 1 . 7 8 18 10 20
19 8	1 0 4 5 1 6 1 lex'll de using a double not
12 1	2 6 7 8 2 queue de les resing a doubles
1	Broth a state of
12/NOX	D find the blankspace dure (0) using function
16/1	for i in rage 31
18/7	for jinages j board (UC)7==0:
	o us i.
12110	long stabulidas 111.5111.
18121	3 Now gamade moves using fuche ic none
18.51	fre blankspace in all possible ways 14=,
	(i) first check if new position is in
	board found (3×3)
	(ii) if it is in bound generate the more
	ce move brak space with adjacent tiles
	and board for parts.
	/
) use bis now use visted list
Pro	/ every time generate a copy and check
Y	with goalstate.
	m,

The second of th
1112131 12131 1213
1114151 11416
1 617 1871 - 300 617 16
61718
[2] 3 [5] [2] 3 [5]
11/4/5/ 11/4/1
1617181 1617181 1617181
Constitution of the sale of th
2 3 2 5 2 5
sharkingh a like 16/18/10/10/13/4/
1617181 1617181 617181
2) and the black span dure (0) nough hurties
11/2/51 11/2/51
1 3 4 3 4 3 4 1
0 6 6 7 18 1 6 1 7 18 1 6 1 7 18 1
1 5 - Ky 6
11121 1 11 121 1 112
1000 31 -123/24/154 soom 130/4/158 cush (13/4/5)
- 16 17 18 1 300 is 1 64 7 18 d and 16 17 18 1
the state check at man ported it in
17 /2 /2 /
100
the same bud with it for (ii)
the burney to think I part . With the title
outing of social but
Jail hoter was all which like
Lister Him gangrate a copy and check

output:-

```
main.py
                   d=[]
                   if b not in [0,1,2]:
                  d.append('u')
if b not in [6,7,8]:
    d.append('d')
if b not in [0,3,6]:
    d.append('1')
if b not in [2,5,8]:
    d.append('r')
→ ,² ☆ ,¾
1 | 2 | 3
4 | 5 | 6
0 | 7 | 8
1 | 2 | 3
0 | 5 | 6
4 | 7 | 8
1 | 2 | 3
4 | 5 | 6
7 | 0 | 8
0 | 2 | 3
1 | 5 | 6
4 | 7 | 8
1 | 2 | 3
5 | 0 | 6
4 | 7 | 8
1 | 2 | 3
4 | 0 | 6
7 | 5 | 8
1 | 2 | 3
4 | 5 | 6
   | 8 | 0
Success
 ...Program finished with exit code 0
Press ENTER to exit console.
```