	Tutonal-5	
01	Key	1 - 1 000
-	Rey Defentation	m Stands Por Breadth Stands Pordepte
	V	First Search hist search
	DataStruct	use 9+ ever queue to 9+ uses stack to
		Rend shortest path find sho fest note
	Source	19+ is better when 9+ is letter when
		Harget is closer target is for
	- 0	to source from source
	Sultable	9+60nsisto all 9+ is more
	fordeusion	neighbour so suitable with
	tree	it is not suikbly de us on
		for deusion tree
	Speed	9+ is slower 9+ is laster than
		9t is slower 9t is faster than than BFS BFS
		The state of the s
2		Let the base of a second secon

12 Stack is used to implement DFS

Decause it it we first tradiense the

whole branch of tree and later on whit

the adjacent branch since this is

similar to UFO the refore stack's

used.

Dueue is used to emplement BFS it is I secause queue is used as FIFO interest lecause BFS is to test the emmediate children first and afterall immediate thildren are tested to their return to those children I sheek their shildren to so forth,

Sparse graph — Graph where no of edges is much less than possible no of edges of Dense graph — Where no of edges is much these to manimal no of edges is much these to manimal no of edges is all graph is dense it should be represented by adjancency matrix of graph is sparse it should be represented by adjancency list

In undirected graph dog BFS traversal on given graph for each visited verten v If there is an odfacent it's such that v'is already visited & it is not parent of v then there is eyele in graph

node as ulsited now for any other vertex if its neighbour is already us ited phour is not parent of that current node then there exist a up le in graph

Disgoint set data structure

The disgoint set & can be defend as subsets where there is no common element De/w 2 sets.

Operations are

i) union

i) Make new set

iii) find

