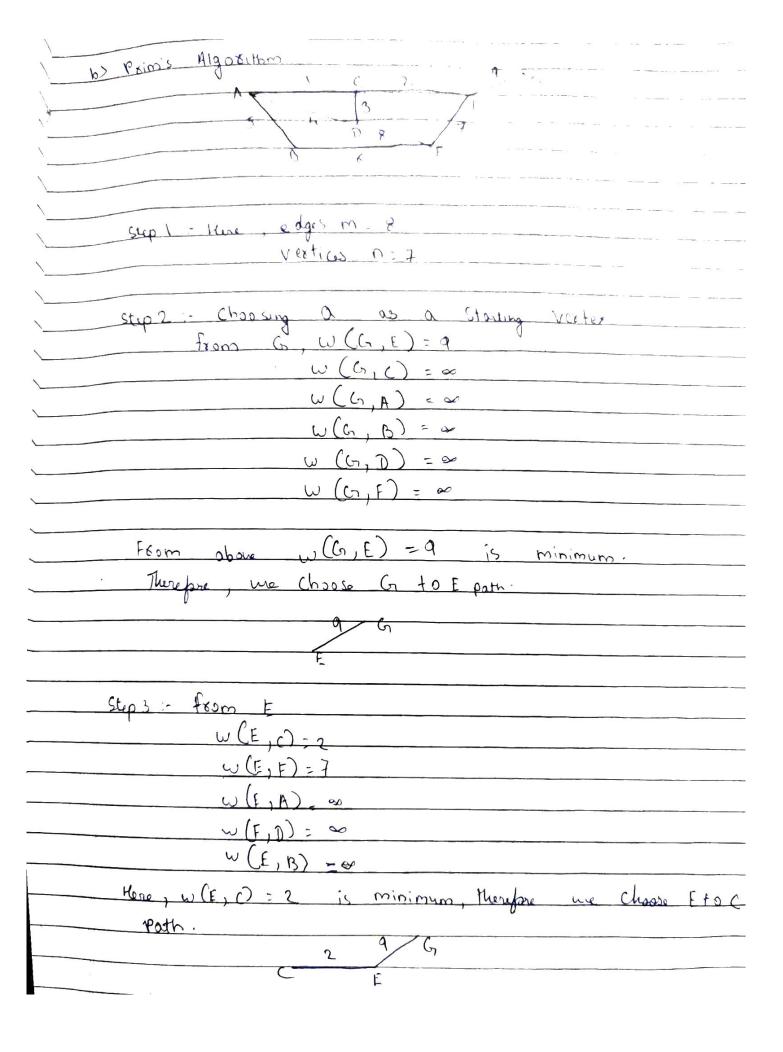
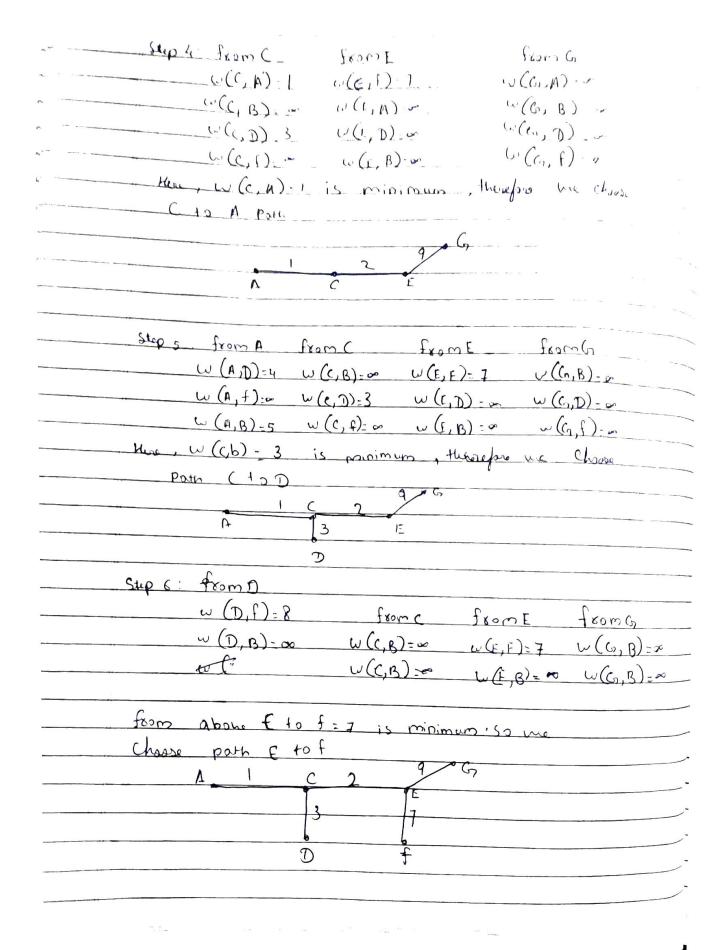
Name - KRISHNAPRASAD-V-AWALA ROH NO : 2215004
Subject - DM
Sugar
DNA Account
DM Assignment No: 5
OIT Define following teams:
a) Trees: A tree is a Connected undirected goods with
no Simple Circuits.
Toron de formit
by Forest: - A forest is an undirected graph in which
any Vextices are connected by at most are path.
c) leaf node: A vextex of sooted tree is called a leaf
node if it has no children.
d) Branch node: Branch node is any node of a tree that
has child grodes.
e) Ancobtoxs: The Ancostoxic of a Vextex other than the
Noot are the vertices in the path from the root
to the work of the post to the soot
to this Vertex, excluding the vertex itself and including
the Noot?
I's siblings: Vertices with the Same parent is colled siblings.
3) Subtree : If a is a world in a tree is the
3) subtace: If a is a vextex in a tree, the subtree with
a as its foot is the subgraph of the tree Consisting
Of a and its descendants and all edges incident to
these des Condonts.
my Diagraph: A directed graph, also called a diagraph is a graph in which the adges have a direction:
grands in articles gropes, also tared a taragraph
10 which the Edges have a dissection.

Binary Search tests. Pinary Search tests. Pinary Search tree is a binary test unbecases. the nodes are assumed in a Order The attalis. Delia the Value in the left sub tree has a value. Dess than that of the sight value. Delia the value in the right book has a value of the same tree. Attent value in the right book has a value of the prode. Post value of tree of the right book has a value of the prode. Reuskol's algorithm. Reuskol's algorithm. As a minimum sparring tree in a Connected wighter opens is a spanning tree in a Connected wighter opens is a spanning tree that has possible sun of degree words of its edger.	- 10.27 Explain Binary Search tree with Example
the nodes are assumed in a order. The stellar is. a) all the value is the left sub tree has a value less than that of the sight value. b) The same true is covered forward to on the sub-tree in tree right books has a value greate And value of coot whode. Co a) Define minimum spanning tree and find minimum spanning tree for given graph using prims and Kruskal's algorithms A 1 C 2 9 67 Ans a) Minimum spanning tree in a connected weighted graph is a spanning tree that has passible sum to	string search 1866.
C: Define minimum Spanning tree and find minimum Spanning tree fox given graph using prim's and Kruskol's algorithm. 1 C 2 2 5 Ans as minimum Spanning tree in a connected weighted graph is a Spanning tree that has passible sum stars.	broary Search tree is a biggry tree where
C: Define minimum spanning tree and find minimum spanning tree grows and primary spanning tree and find minimum spanning tree growth using prims and kruskol's algorithm. C: Define minimum spanning tree and find minimum spanning tree for given graph using prims and kruskol's algorithm. C: Define minimum spanning tree and find minimum spanning tree graph using prims and has a spanning tree in a connected weighted graph is a spanning tree that has passible sum states.	a) all the sale is a poder the order is.
Sub-tace in tree O All the Value in the right hade has a Value gests than Value of cost mode. Co. Define minimum spanning tree and find minimum spanning tree for given graph using prims and Kruskol's algorithm C 2 2 9 9 Ans a) Minimum spanning tree in a connected weighted graph is a spanning tree in a connected weighted	less throughout of the ride walks
An the value in the right bode has a value of easts that value of east mode. Co. Define minimum spanning tree and find minimum spanning tree for given graph using prims and kruskal's algorithm. A c 2 a G A c 3 F A minimum spanning tree in a connected weighted graph is a spanning tree that has passible sum of graph is a spanning tree that the graph is a spanning tree that the graph is a spanning tree that the graph is a spanning tree that	b) The same xule is carried forward to all the
C.3) Define minimum Spanning tree and find minimum Spanning tree fox given grouph using exims and kenskal's algorithm. C. 2 9 9 A S 6 A minimum Spanning tree in a Connected weighted grouph is a Spanning tree that has passible sum states.	sub-tree 10 tree.
C.3) Define minimum Spanning tree and find minimum Spanning tree fox given grouph using exims and kenskal's algorithm. C. 2 9 9 A S 6 A minimum Spanning tree in a Connected weighted grouph is a Spanning tree that has passible sum states.	All the value in the right hade has a value great
Keuskol's algorithm C 2 2 G B 6 Ans a) Minimum Spanning tree in a Connected weighted graph is a Spanning tree that has passible sum of the s	man Value et 2001 Mode.
Keuskol's algorithm C 2 2 G B 6 Ans a) Minimum Spanning tree in a Connected weighted graph is a Spanning tree that has passible sum of the s	eg:-
Keuskol's algorithm C 2 2 G B 6 Ans a) Minimum Spanning tree in a Connected weighted graph is a Spanning tree that has passible sum of the s	
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Keuskol's algorithm C 2 a G B 6 Ans a) Minimum Spanning tree in a Connected weighted graph is a Spanning tree that has passible sum of the s	
Ans a) minimum Spanning tree A minimum Spanning tree in a Connected weighted graph is a Spanning tree that has possible sum of	Tree tox given group using prims and
groph is a Spanning tree that has possible sum of	A C 2 a G
groph is a Spanning tree that has possible sum of	5 4 3 E
groph is a Spanning tree that has possible sum of	B 6
grouph is a Spanning tree that has possible sum of	
groph is a Spanning tree that has possible sum of	ALS a) Minimum Spanning tree
graph is a spanning tree that has possible sum of	
Togree moights of its edges-	graph is a Spanning tree that has possible sum of
	logree margus of 1+5 edges-





Step 7: From F	Srom a	from C		
w (f. B) = 6	w(n,B)-5	(((- B) - 0		
fxom E	From G			
	(¿(G,B)=~			
	(A,B)=5		14:0	
Choose pats	A to B.		W. Le	
٨	2 9	G		
Choose path 1	3			
.	D t			
Step 8 : minimum Sp.	ofmin tree Cos	t - adding up	N 211 H.	
Step 8 Minimum Spo Edges weight = 5+1	of Spanning	troo	of the	
= 5+1	+3+2+7+9			
= 7 7				
C) Kruskal's Algarithm	~			
Step 1:- Kine Vectices n=7				
Codges m=8				
eting in lists of a	14 H 0 d - 2			
Stop 2:- listing of all the colges in mom increasing order of their height.				
Their Weight				
Edges A-C C-F				
-		A-B B-F C	-F = (n	
Lucight 1 2	3 4	5 6 7		
				
Styp 3 :- Select A-C	with weight	1		
M				
- A	1			
Chal				
Step 4: - Select C-E buth marght 2				
	7			
A I e Z E				
I				

