	PAGE NO: DATE:	5
6.	reparte centroide:	
-	For each dute, compute the	e mean
	of the point assigned to it	
	reparte the centraid with I	
5.	Convergence check:	
	If chestel assignments do no	t change
	of centroids remain the carn	, stop
6.	Output!	
	Final centroide of all churter	
-	Christer labele for each duta	
	Annual Maria	
	Principal Component Analysis	
	Died toward formation to	
1.	Standardize The Data	~ ~ <i>d</i>
	given a dataset x of size no so of sumples.	120
	d - number of features.	
	L. V - V - W - W - W - Cd	
	* contact = X - M.	
2.	· Compute De copariance Matr	
9.3455	at the same and seems all in	
-	Calculate the correliance matrix	
	De relationship letween diff	
	polors	
	C = 1 Y Tantared X anto	ud.
	h-1	
		ALTERNATION OF THE PARTY.

PAGE NO : DATE :

3.	Compute the Eigenvaluel & Eigenverlar
-	
	Eigenvectore (directions of the name feature space)
	feature space)
	Eigenvalues (variance)
TENE	Ecgumus (Vanada)
4.	
	Sort Eigen valuel and tigenerators
-	soft the eigenvalue in descending older
	217,227,
	and the state of t
5.	select The Top K Eigenvectors.
_	Choose The top K eigenvectory.
	corresponding to the K carget eigenvalue
	These eigenvectors form a new waris
	for the reduced feature space.
6.	Construction De Projection Matrix
	Form a motrid b)
	THE A STANKE W
1007.24	W=[V,, V2, V5- V10]
	3 10)
7	0 1 1 5
	Project the Data:
	Multiply the centered data X antered
	by the projection matrix w to obtain
16	reduced dataset in the new t-
9/14	dimensional space
1	
	Xordered = Xantired W