**Assignment**

(2018btecs00212)

**Q.1 You are given two sorted array, A and B, where A has a large enough buffer at the end to hold B. Write a method to merge B into A in sorted order.**

void merge(int A[],int B[],int filled){

int size\_buf = A.length-1;

int size\_b = B.length-1;

while(size\_b >= 0){

if(filled>=0 && A[filled] > B[size\_b] )

{ A[size\_buf] = A[filled]; filled--; }

else

{ A[size\_buf] = B[size\_b]; size\_b--; }

size\_buf--;

}

}

**Q.4 Imagine you have a 20GB file with one string per line. Explain how you would sort the file.**

1. Initially take divide the 20 Gb file into the n equivalent part which fits into the memory

2. then sort each part

3. then takes one starting elements from each sorted part and perform K way merging operation.