**Question – 46**

**public** **class** Ques46 {

**public** **static** List<List<String>> groupAnagrams(String[] strs) {

List<List<String>> output = **new** ArrayList<>();

HashMap<String, List<String>> map = **new** HashMap<>();

**for**(**int** i=0;i<strs.length;i++){

**char** str[] = strs[i].toCharArray();

Arrays.*sort*(str);

String s = String.*valueOf*(str);

**if**(map.get(s)!=**null**){

List<String> a = map.get(s);

a.add(strs[i]);

map.put(s, a);

}

**else**{

List<String> a = **new** ArrayList<>();

a.add(strs[i]);

map.put(s, a);

}

}

**for**(Map.Entry<String, List<String>> en:map.entrySet()){

output.add(en.getValue());

}

**return** output;

}

**public** **static** **void** main (String[] args)

{

String[] words = {"eat","tea","tan","ate","nat","bat"};

List<List<String>> output = *groupAnagrams*(words);

System.***out***.println("Grouped anagrams: ");

System.***out***.println("------------------");

System.***out***.println(output);

}

}

