**Aim:-**

1) Write a program to read a string and replace all spaces with new line.

Eg : How are you, then o/p is

How

are

you

**Program:-**

import java.io.\*;

import java.util.\*;

import java.lang.\*;

class Sam40

{

public static void main(String args[])

{

Scanner in =new Scanner(System.in);

System.out.println("enter string");

String s=in.nextLine();

String ar[]=s.split(" ");

for(String ss:ar)

System.out.println(ss);

}

}

**Aim:-**

2) Write a program to take input as number, and print number with its placr. Eg: 1375 then out put is, 1000+300+70+5

**Program:-**

#include<stdio.h>

#include<math.h>

int main(){

long a,p,n,d;

printf("enter a:");

scanf("%ld",&a);

n=log10(a);

p=pow(10,n);

while(p>=1){

d=a/p;

printf("%ld+",(d\*p));

a=a%p;

p=p/10;

}

return 0;

}

**Aim:-**

3) Write a program to read a number, and print the largest number in it, without converting into string, Eg. 1398 then, output is 9831

**Program:-**

import java.io.\*;

import java.util.\*;

import java.lang.\*;

class Sam41

{

public static void main(String args[])

{

Scanner in =new Scanner(System.in);

System.out.println("enter no");

int n=in.nextInt();

ArrayList<Integer> al = new ArrayList<Integer>();

while(n!=0)

{

int temp=n%10;

n/=10;

al.add(temp);

}

Collections.sort(al);

ListIterator<Integer> lis = al.listIterator(al.size());

while(lis.hasPrevious())

System.out.print(lis.previous());

}

}

**Aim:-**

4) Write a program to take input as String, and print characters when both uppercase and lowercase there in string. Eg. ElephAntIasiS then output is eais

**Program:-**

import java.io.\*;

import java.util.\*;

import java.lang.\*;

class Sam42

{

public static void main(String args[])

{

Scanner in =new Scanner(System.in);

System.out.println("enter string");

String s=in.next();

for(int i=0;i<s.length();i++)

{

if(Character.isUpperCase(s.charAt(i)))

System.out.print(Character.toLowerCase(s.charAt(i)));

}

}

}

**Aim:-**

5) Write a program to take array of strings, sort the strings according to the position of given character in the strings. Eg. Input character is :a and input strings are :apple, jeans, ear, locate then, output is : locate, jeans, ear, apple. (4,3,2,1)

**Program:-**

**package** org.tasks;

**import** java.util.Scanner;

**import** java.util.TreeMap;

**public** **class** StringSortAtSpecifiedLoc {

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

{

Scanner in =**new** Scanner(System.***in***);

System.***out***.println("enter no");

**int** n=in.nextInt();

String arr[] =**new** String[n];

System.***out***.println("enter strings");

**for**(**int** i=0;i<n;i++)

arr[i]=in.next();

TreeMap<Integer,StringBuffer> tm = **new** TreeMap<Integer,StringBuffer>(**new** IntegerComparator());

System.***out***.println("enter character to search");

**char** ch=in.next().charAt(0);

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

{

StringBuffer sb=**new** StringBuffer();

**for**(**int** j=0;j<arr[i].length();j++)

{

**if**(ch==arr[i].charAt(j))

{

**if**(tm.containsKey(j))

{

sb=tm.get(j);

sb.append(arr[i]+",");

tm.put(j,sb);

}

**else**

{

sb.append(arr[i]+",");

tm.put(j,sb);

}

}

}

}

**for**(StringBuffer sb:tm.values())

{

System.***out***.print(sb.toString());

}

}

}

**(IntegerComparator.java)**

**package** org.tasks;

**import** java.util.Comparator;

**public** **class** IntegerComparator **implements** Comparator<Integer> {

@Override

**public** **int** compare(Integer o1, Integer o2) {

**if**(o1<o2)

**return** 1;

**else** **if**(o1>o2)

**return** -1;

**else**

**return** 0;

}

}