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1.

import java.util.\*;

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class Student{

private String name;

private String phone;

Student(String nm,String ph){

name = nm;

phone = ph;

}

String getName(){

return name;

}

String getPhone(){

return phone;

}

public boolean equals(Object second){

return (this.getName().equals(((Student)second).getName()));

}

}

public class Main

{

public static void main(String[] args) {

System.out.println("Hello World");

ArrayList<String> as = new ArrayList<String>();

as.add("sai");

as.add("bhuvi");

as.add("jai");

as.add("chandra");

Iterator<String> itr = as.iterator();

while(itr.hasNext()){

System.out.println(itr.next());

}

int p = as.indexOf("adi");

System.out.println("the index is "+ p);

for(String nm : as){

System.out.println(nm);

}

ArrayList<Student> user = new ArrayList<Student>();

user.add(new Student("sai","8358964391"));

user.add(new Student("bhuvi","9246789013"));

Student s1 = new Student("jai","9915672409");

Student s2 = new Student("chandra","9470146686");

int pos = user.indexOf(s1);

System.out.println(user);

System.out.println("the position is "+ pos);

}

}

2.

import java.util.\*;

import java.lang.\*;

class Student implements Cloneable{

String name;

double cgpa;

Student(String nm,double gpa){

name = nm;

cgpa = gpa;

}

public Object clone() throws CloneNotSupportedException{

return super.clone();

}

}

public class Main

{

public static void main(String[] args) throws CloneNotSupportedException {

Student s1 = new Student("bhuvi",8.8);

Student s2;

s2 = (Student)s1.clone();

System.out.println(s2.name+" "+s2.cgpa);

}

}

3.

import java.util.Scanner;

import java.io.\*;

public class SBTest

{

public static void main (String args[]) throws IOException {

StringBuffer sb1 = new StringBuffer();

System.out.println("capacity = "+ sb1.capacity());

System.out.println("length = "+ sb1.length());

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

Scanner s = new Scanner(System.in);

StringBuffer sb = new StringBuffer(br.readLine());

int count = 0;

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

if(sb.charAt(i) == 'a' || sb.charAt(i) == 'e' || sb.charAt(i) == 'o' || sb.charAt(i) == 'i' || sb.charAt(i) == 'o' )

count ++;

System.out.println("Total Vowels in "+ sb + "is" + count);

}

}