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**QUESTION 1**

import java.util.\*;

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) {

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

as.add("manoj");

as.add("sandeep");

as.add("manu");

as.add("deepu");

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

while(itr.hasNext()){

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

}

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

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("manoj","5467435677"));

user.add(new Student("sandeep","9876789435"));

Student s1 = new Student("manu","2340987656");

Student s2 = new Student("deepu","2345436874");

int pos = user.indexOf(s1);

System.out.println(user);

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

}

}

**QUESTION 2**

class Student implements Cloneable

{

String name;

double cgpa;

Student (String n,double cgpa)

{

name = n ;this.cgpa = cgpa;

}

public Object clone() throws CloneNotSupportedException

{

return super .clone();

}

}

public class test

{

public static void main(String arg[]) throws CloneNotSupportedException

{

Student s1 = new Student (" manoj", 9.2);

Student s2;

s2=(Student ) s1.clone();

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

}

}

QUESTION 3

import java.util.\*;

import java.lang.\*;

import java.io.\*;

public class Main

{

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

StringBuffer sb = new StringBuffer("hello");

System.out.println(sb.capacity());

System.out.println(sb.length());

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

//Scanner s = new Scanner(System.in);

StringBuffer s1 = new StringBuffer(br.readLine());

int count=0;

for(int i=0;i<s1.length();i++){

if(s1.charAt(i) == 'a'|| s1.charAt(i) == 'e'||s1.charAt(i) == 'i'||s1.charAt(i) == 'o'||s1.charAt(i) == 'u'){

count++;

}

}

System.out.println("the count is "+ count);

}

}