1. Animation of a car

import java.awt.\*;

import java.applet.\*;

/\*

<applet code="AnimationEx.class" width="800" height="1000">

</applet>

\*/

public class AnimationEx extends Applet

{

Image pic;

public void init()

{

pic=getImage(getDocumentBase(),"car.jpeg");

}

public void paint(Graphics grp)

{

for(int i=50;i<100;i++)

{

grp.drawImage(pic,i,30,this);

try

{

Thread.sleep(1000);

}

catch (Exception e){}

}

}

}

2. character in string:

import java.util.Scanner;

public class charstr

{

public static void main(String[] arg)

{

Scanner sc=new Scanner(System.in);

System.out.print("enter a string: ");

String s=sc.nextLine();

System.out.println("enter a char to check: ");

char c=sc.next().charAt(0);

char a[]=s.toCharArray();

System.out.println("element found: ");

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

{

if(a[i]==c)

{

System.out.println("index number is: "+(i+1));

}

}

}

}

3.consonants and vowels:

import java.util.Scanner;

public class conwels

{

public static void main(String [] args)

{

Scanner sc=new Scanner(System.in);

int vowles=0;

System.out.println("enter a sentence: ");

String str=sc.nextLine();

System.out.println("vowels are:");

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

{

char ch=str.charAt(i);

if(ch=='a'||ch=='e'||ch=='i'||ch=='o'||ch=='u'||ch=='A'||ch=='E'||ch=='I'||ch=='O'||ch=='U'){

System.out.print(str.charAt(i));

}

}

System.out.println("Con are:");

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

{

char ch = str.charAt(i);

if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' || ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U') {

vowles++;

}

else {

System.out.println(str.charAt(i));

}

}

}

}

4. Exception handling

import java.io.\*;

import java.util.\*;

class d

{

public static void main(String args[])

{

int[] numbers = {1, 2, 3, 4, 5};

try {

int x = numbers[5];

System.out.println(x);

} catch (ArrayIndexOutOfBoundsException e) {

System.out.println("Error: Index is out of bounds.");

}

}

}

5. list iterator:

import java.io.\*;

import java.util.\*;

public class iterator

{

public static void main(String args[])

{

ArrayList a1 = new ArrayList();

a1.add("C");

a1.add("A");

a1.add("E");

a1.add("B");

a1.add("D");

a1.add("F");

System.out.println("original contents of a1:");

Iterator itr = a1.iterator();

while(itr.hasNext())

{

Object element = itr.next();

System.out.println(""+element);

}

System.out.println();

ListIterator litr = a1.listIterator();

while(litr.hasNext())

{

Object element = litr.next();

litr.set(element+"+");

}

System.out.println("modified contents of a1:");

itr = a1.iterator();

while(itr.hasNext())

{

Object element = itr.next();

System.out.println(""+element);

}

System.out.println();

System.out.println("modified list backwards");

while(litr.hasPrevious())

{

Object element = litr.previous();

System.out.print(""+element);

}

System.out.println();

}

}

6. multiplication of 5 and 10

import java.io.\*;

class Table

{

void printTable(int n)

{

synchronized(this)

{

for (int i =1;i<=10;i++)

{

System.out.println(+n+"\*"+i+"="+(n\*i));

try

{

Thread.sleep(500);

}

catch(Exception e)

{

System.out.println(e);

}

}

}

}

}

class MyThread1 extends Thread

{

Table t;

MyThread1(Table t)

{

this.t=t;

}

public void run()

{

t.printTable(5);

}

}

class MyThread2 extends Thread

{

Table t;

MyThread2(Table t)

{

this.t=t;

}

public void run()

{

t.printTable(10);

}

}

class Use

{

public static void main(String args[])

{

Table obj = new Table();

MyThread1 th1 = new MyThread1(obj);

MyThread2 th2 = new MyThread2(obj);

th1.start();

th2.start();

}

}

7.swapping values of int and str

import java.io.\*;

import java.util.\*;

class TwoGenerics<T>

{

T a;

T b;

TwoGenerics(T a1, T b1)

{

a=a1;

b=b1;

}

void swap()

{

T c=a;

a=b;

b=c;

}

void print()

{

System.out.println(a);

System.out.println(b);

}

}

class GDemo

{

public static void main(String args[])

{

TwoGenerics<Integer>obj=new TwoGenerics<Integer>(45,86);

System.out.println("before swapping");

obj.print();

System.out.println("after swapping");

obj.swap();

obj.print();

TwoGenerics<String>obj1=new TwoGenerics<String>("SSE","VIT");

System.out.println("before swapping");

obj1.print();

System.out.println("after swapping");

obj1.swap();

obj1.print();

}

}

8. vowels

import java.util.Scanner;

public class vowels {

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

String s=sc.nextLine();

String d=s.toLowerCase();

char a[]=d.toCharArray();

int vo=0;

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

{

if(a[i]=='a'||a[i]=='e'||a[i]=='i'||a[i]=='o'||a[i]=='u')

{

vo=vo+1;

System.out.println(a[i]);

}

}

System.out.println(vo);

}

}