import java.util.Scanner;

import java.util.ArrayList;

import java.io.File;

import java.io.PrintWriter;

public class CheckPrimes

{

public static void checkPrimes(String in\_file, String out\_file)

{

File temp = new File(in\_file);

Scanner input\_file = null;

try

{

input\_file = new Scanner(temp);

}

catch (Exception e)

{

System.out.printf("Error in opening file for reading");

System.exit(0);

}

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

while(input\_file.hasNextLine())

{

line.add(input\_file.nextLine());

}

input\_file.close();

PrintWriter out = null;

try

{

out = new PrintWriter(out\_file);

}

catch (Exception e)

{

System.out.printf("Error in opening file for writing.\n",out\_file);

System.exit(0);

}

for(int j = 0; j < line.size(); j++)

{

Scanner code = new Scanner(line.get(j));

int N = code.nextInt();

int c = 0;

for(int i = 2; i < N; i++)

{

if (N % i == 0)

{

c = 1;

}

}

if(c == 0)

{

out.printf("%d is prime.\r\n", N);

}

else

{

out.printf("%d is not prime.\r\n", N);

}

}

out.close();

}

public static void main(String[] args)

{

checkPrimes("in4.txt", "out4.txt");

System.out.printf("Exiting...\n");

}

}

import java.util.Scanner;

import java.util.ArrayList;

import java.io.File;

public class CountVowels

{

public static void countVowels(String in\_file)

{

File location = new File(in\_file);

Scanner input\_file = null;

try

{

input\_file = new Scanner(location);

}

catch (Exception e)

{

System.out.printf("Error in opening file for reading");

System.exit(0);

}

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

while(input\_file.hasNextLine())

{

String result = input\_file.nextLine();

line.add(result);

}

vowelArray(line);

}

public static int count(char v, String d)

{

int count = 0;

d = d.toLowerCase();

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

{

if (v == d.charAt(i))

{

count++;

}

}

return count;

}

public static void vowelArray(ArrayList<String> line)

{

String plan = "";

int[] counter = new int[5];

for (int x = 0; x < line.size(); x++)

{

plan = plan + line.get(x);

}

char[] vowels = {'a','e','i','o','u'};

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

{

counter[i] = count(vowels[i], plan);

System.out.printf("%c: %d times\n", vowels[i], counter[i]);

}

}

public static void main(String[] args)

{

countVowels("in5.txt");

}

}

import java.io.File;

import java.util.\*;

public class SumIntegers

{

public static int sumIntegers(String filename)

{

File temp = new File(filename);

Scanner input\_file;

try

{

input\_file = new Scanner(temp);

}

catch (Exception e)

{

System.out.printf("Failed to open file %s\n",

filename);

return 0;

}

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

int sum = 0;

while(input\_file.hasNextLine())

{

String line = input\_file.nextLine();

result.add(line);

try

{

int number = Integer.parseInt(line);

sum = sum + number;

}

catch (Exception e)

{

System.out.printf("");

}

}

input\_file.close();

return sum;

}

public static void main(String[] args)

{

Scanner in = new Scanner(System.in);

System.out.printf("Please enter the name of the input file: ");

String filename = in.nextLine();

int result = sumIntegers(filename);

System.out.printf("result = %d.\n", result);

}

}