ASSIGNMENT-2

* Write a program in java to find balance on car loan with amort formula.

import java.util.\*;

class B1

{

public static void main(String args[])

{

double p,r,a;

int t;

Scanner s=new Scanner(System.in);

System.out.print("Enter the principal,rate of interest and time : ");

p=s.nextDouble();

r=s.nextDouble();

t=s.nextInt();

t=t\*12;

a=(p\* ((r\*Math.pow(1+r,t))/(Math.pow(1+r,t)-1))/100);

System.out.println("The Amount per month is : "+ Math.round(a));

}

}

* Write a program in java to finds diam/area/circum of circle, with rounding formula.

import java.util.Scanner;

import java.lang.\*;

class B2

{

public static void main(String[] args)

{

System.out.print("Enter the radius of circle = ");

Scanner s=new Scanner(System.in);

double r=s.nextDouble();

double dia=2\*r;

double pie=3.14;

double area=pie \* r \* r;

double cir=2 \* pie \* r;

System.out.println("The Diameter of circle is : "+ Math.round(dia));

System.out.println("The Area of circle is : "+ Math.round(area));

System.out.println("The circumference of circle is : "+ Math.round(cir));

}

}

* Input a mail-id & check whether the input mail-id is valid or not. Use command line argument. (arg[0] will be the mail-id)

import java.lang.String;

public class B3

{

public static void main(String args[])

{

String email1=args[0];

int count=0,temp=0;

String a[] = email1.split("@");

String b = a[1];

String c[]= b.split("\\.");

System.out.println(a[0]);

System.out.println(c[0]);

System.out.println(c[1]);

if(a[0].length() < 6)

System.out.println("Your id must contain 6 characters");

if( c[1].equals("com") && ( c[0].equals("gmail") || c[0].equals("yahoo") || c[0].equals("ymail") || c[0].equals("rediffmail") || c[0].equals("hotmail") ))

System.out.println("You entered a valid email address");

}

}

* Find length for a given string (command line argument). Convert this string into an array. Replace all even no characters with a special symbol # and display.

public class B4

{

public static void main(String args[])

{

int i;

String s1=args[0];

System.out.println("The length of string is : " + s1.length());

char[] t=s1.toCharArray();

for(i=1;i<s1.length();i=i+2)

{

t[i]='#';

}

System.out.print("The string after change is : ");

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

{

System.out.print(t[i]);

}

}

}

* To check whether a given string is valid integer or not. Use command line argument.

import java.io.File;

import java.io.FileNotFoundException;

import java.io.PrintWriter;

import java.util.Scanner;

public class JavaApplication2 {

/\*\*

\* @param args the command line arguments

\*/

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

String str;

Scanner s=new Scanner(new File("input.txt"));

PrintWriter out=new PrintWriter(new File("output.txt"));

try{

while(true){

str=s.nextLine();

if((str.indexOf(' ')!=str.lastIndexOf(' '))&& str.length()==15){

out.println(str);

}

}

}catch(Exception e){

}finally{

s.close();

out.close();

}

}

}

Write a program in java to print the name of the student corresponding to its roll number, entered by user using keyboard. The data with columns as roll number and name is provided in a text file .

package javaapplication2;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.PrintWriter;

import java.util.Scanner;

/\*\*

 \*

 \* @author Spaghetti

 \*/

public class JavaApplication2 {

    /\*\*

     \* @param args the command line arguments

     \*/

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

        String str;

        Scanner s=new Scanner(new File("input.txt"));

        Scanner s2=new Scanner(System.in);

        int roll=s2.nextInt();

        PrintWriter out=new PrintWriter(new File("output.txt"));

        try{

            while(true){

               str=s.nextLine();

               if(roll==Integer.parseInt(str.substring(0, str.indexOf(' ')))){

                   System.out.println(str.substring(str.indexOf(' ')));

               }

            }

        }catch(Exception e){

        }finally{

            s.close();

            out.close();

        }

    }

}

Write a program in java to copy the name of female members from a file to a different file. The data in the file is in the form of rows and columns like shown below.

package javaapplication2;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.PrintWriter;

import java.util.Scanner;

/\*\*

 \*

 \* @author Spaghetti

 \*/

public class JavaApplication2 {

    /\*\*

     \* @param args the command line arguments

     \*/

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

        String str;

        Scanner s=new Scanner(new File("input.txt"));

        Scanner s2=new Scanner(System.in);

        int roll=s2.nextInt();

        PrintWriter out=new PrintWriter(new File("output.txt"));

        try{

            while(true){

               str=s.nextLine();

               if(roll==Integer.parseInt(str.substring(0, str.indexOf(' ')))){

                   System.out.println(str.substring(str.indexOf(' ')));

               }

            }

        }catch(Exception e){

        }finally{

            s.close();

            out.close();

        }

    }

}

Write a program to replace all occurrences of a word with a new word given by the user from a file using keyboard.

package javaapplication2;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.PrintWriter;

import java.util.Scanner;

/\*\*

 \*

 \* @author Spaghetti

 \*/

public class JavaApplication2 {

    /\*\*

     \* @param args the command line arguments

     \*/

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

        String str;

        Scanner s=new Scanner(new File("input.txt"));

        Scanner s2=new Scanner(System.in);

        String str1=s2.next();

        String str2=s2.next();

        PrintWriter out=new PrintWriter(new File("output.txt"));

        try{

            while(true){

               str=s.nextLine();

               str=str.replaceAll(str1, str2);

               out.println(str);

            }

        }catch(Exception e){

        }finally{

            s.close();

            out.close();

        }

        try{

        s=new Scanner(new File("output.txt"));

        out=new PrintWriter(new File("input.txt"));

        while(true){

               str=s.nextLine();

               out.println(str);

            }

    }catch(Exception e){

    }finally{

            s.close();

            out.close();

        }

    }

}