Commandline Arguments

import java.io.\*;

class sorting

{

public static void main(String args[])

{

int i,j;

int a[]=new int[100];

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

{ a[i]=Integer.parseInt(args[i]); }

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

{

for(j=i+1;j<=args.length;j++)

{

if(a[i]>a[j])

{

int t=a[i];

a[i]=a[j];

a[j]=t;

}

}

}

System.out.println("\nAscending Order\n");

for(i=1;i<=args.length;i++)

{ System.out.println("\t"+a[i]); }

System.out.println("\nDescending Order\n");

for(j=args.length;j>=1;j--)

{ System.out.println("\t"+a[j]); }

}

}

Output :

~~~~~~~~

Z:\Java\Lab>java sorting 6 8 2 0 3

Ascending Order

0

2

3

6

8

Descending Order

8

6

3

2

0

java

Remove the duplicates in the array

import java.io.\*;

class duplicate

{

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

{

int n,i,j;

int a[]=new int[100];

int b[]=new int[100];

DataInputStream d=new DataInputStream(System.in);

System.out.println("Enter Values");

n=Integer.parseInt(d.readLine());

for(i=0;i<n;i++)

{

a[i]=Integer.parseInt(d.readLine());

}

for(i=0;i<n;i++)

{

for(j=i+1;j<n;j++)

{

if(a[i] == a[j])

{ b[i]=a[i];}

}

}

System.out.println("After Removing Duplicate Elements");

for(i=0;i<n;i++)

{

if(b[i] != a[i])

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

}

}

}

Output:

~~~~~~~

Z:\Java\Lab>java duplicate

Enter Values

5

6

7

8

9

5

After Removing Duplicate Elements

6

7

8

9

5

Print The Given Number In Words

import java.util.\*;

import java.io.\*;

class number

{

public void pw(int n,String ch)

{

String one[]={" "," one"," two"," three"," four"," five"," six",

" seven"," eight"," Nine"," ten"," eleven"," twelve"," thirteen",

" fourteen","fifteen"," sixteen"," seventeen"," eighteen"," nineteen"};

String ten[]={" "," "," twenty"," thirty"," forty"," fifty"," sixty",

"seventy"," eighty"," ninety"};

if(n>19)

System.out.print(ten[n/10]+" "+one[n%10]);

else

System.out.print(one[n]);

if(n>0)

System.out.print(ch);

}

public static void main(String[] args)throws Exception

{

int n=0;

DataInputStream in=new DataInputStream(System.in);

System.out.print("Enter an integer number : ");

n = Integer.parseInt(in.readLine());

if(n<=0)

System.out.print("Enter numbers greater than 0");

else

{

number a =new number();

//System.out.print("After number in words is ");

System.out.print("\t"+n+"");

a.pw((n/1000000000)," Hundred");

a.pw((n/10000000)%100," crore");

a.pw(((n/100000)%100)," lakh");

a.pw(((n/1000)%100)," thousand");

a.pw(((n/100)%10)," hundred");

a.pw((n%100)," ");

}

}

}

Output :

~~~~~~~~

Z:\Java\Lab>java number

Enter an integer number : 456

456 four hundred fifty six

Method Overloading

import java.io.\*;

class meth

{

void len(String str1)

{

System.out.print("Length Of The Given String : "+str1.length());

}

void len(String str1,String str2)

{

System.out.print("After Concatination : "+str1.concat(str2));

}

void len(String str1,String str2,int s,int e)

{

System.out.print("Before Replace : "+str1);

StringBuffer sb=new StringBuffer(str1);

System.out.print("\nAfter Replace : "+sb.replace(s,e,str2));

}

}

class overload

{

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

{

int n,s1,e1,ch;

String str1,str2,str3,str4;

meth m=new meth();

DataInputStream din=new DataInputStream(System.in);

do

{

System.out.println("\n\t1 : Length\n\t2 : Concatination\n\t3 : Replace\n\t");

System.out.print("Enter Your Option : ");

n=Integer.parseInt(din.readLine());

switch(n)

{

case 1:

System.out.print("Enter The String : ");

str1=din.readLine();

m.len(str1);

break;

case 2:

System.out.print("Enter The First Word : ");

str1=din.readLine();

System.out.print("Enter The Second Word : ");

str2=din.readLine();

m.len(str1,str2);

break;

case 3:

System.out.print("Enter The Sentance : ");

str1=din.readLine();

System.out.print("Enter The Replace String : ");

str2=din.readLine();

System.out.println("Enter The Starting & Ending Positions Of The String");

s1=Integer.parseInt(din.readLine());

e1=Integer.parseInt(din.readLine());

m.len(str1,str2,s1,e1);

break;

default :

System.out.println("\n\t<<<<<INVALID SELETION>>>>>");

}

System.out.println("\nDo You Want To Continue.......?\n\tYES=0/NO=1\n");

ch=Integer.parseInt(din.readLine());

}

while(ch==0);

}

}

Output :

~~~~~~~~

Z:\Java\Lab>java overload

1 : Length

2 : Concatination

3 : Replace

Enter Your Option : 1

Enter The String : Muthuraj

Length Of The Given String : 8

Do You Want To Continue.......?

YES=0/NO=1

0

1 : Length

2 : Concatination

3 : Replace

Enter Your Option : 2

Enter The First Word : Muthu

Enter The Second Word : RAj

After Concatination : MuthuRAj

Do You Want To Continue.......?

YES=0/NO=1

0

1 : Length

2 : Concatination

3 : Replace

Enter Your Option : 3

Enter The Sentance : Muthuraj

Enter The Replace String : kumar

Enter The Starting & Ending Positions Of The String

5

8

Before Replace : Muthuraj

After Replace : Muthukumar

Do You Want To Continue.......?

YES=0/NO=1

1

Methode Overriding

java

import java.io.\*;

class one

{

int n,m;

int a[][]=new int[10][10];

int b[][]=new int[10][10];

int c[][]=new int[10][10];

void getdata()

{

DataInputStream in=new DataInputStream(System.in);

try

{

System.out.print("Enter n Value:");

n=Integer.parseInt(in.readLine());

System.out.print("Enter m Value:");

m=Integer.parseInt(in.readLine());

System.out.println("Enter First Matrix Value");

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

for(int j=1;j<=m;j++)

a[i][j]=Integer.parseInt(in.readLine());

System.out.println("Enter Second Matrix value");

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

for(int j=1;j<=m;j++)

b[i][j]=Integer.parseInt(in.readLine());

}

catch(Exception e)

{

System.out.println("Errrrror....!");

}

}

void display()

{

System.out.println("First Matrix is....!\n");

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

{

for(int j=1;j<=m;j++)

{

System.out.print(" "+a[i][j]);

}

System.out.print("\n");

}

}

}

class two extends one

{

void calc()

{

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

{

for(int j=1;j<=m;j++)

{

c[i][j]=a[i][j]+b[i][j];

}

}

System.out.println("\nResult end Matrix is....!\n");

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

{

for(int j=1;j<=m;j++)

{

System.out.print(" "+c[i][j]);

}

System.out.print("\n");

}

}

void display()

{

super.display();

System.out.println("\nSecond Matrix is....!\n");

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

{

for(int j=1;j<=m;j++)

{

System.out.print(" "+b[i][j]);

}

System.out.print("\n");

}

}

}

class Overridemain

{

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

{

two obj=new two();

System.out.println("\n\n\t\tMatrix Addition");

System.out.println("\t\t^^^^^^ ^^^^^^^^\n");

obj.getdata();

obj.display();

obj.calc();

}

}

Output :

~~~~~~~~

Z:\Java\Lab>java Overridemain

Matrix Addition

^^^^^^ ^^^^^^^^

Enter n Value:2

Enter m Value:2

Enter First Matrix Value

1

2

3

4

Enter Second Matrix value

1

2

3

4

First Matrix is....!

1 2

3 4

Second Matrix is....!

1 2

3 4

Result end Matrix is....!

2 4

6 8

Quiz Using Array

java

import java.io.\*;

class quiz

{

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

{

int i,j=0;

int a[]={2,3,1,1,1};

int b[]=new int[10];

String na;

DataInputStream din=new DataInputStream(System.in);

System.out.print("Enter Your Name : ");

na=din.readLine();

System.out.println("\n\n\t\t\tWELCOME "+na);

System.out.println("\n\t\tALL THE BEST\n");

System.out.println("1: The old name of Java was ?");

System.out.println("\n\t(1)J language\t(2)oak\n\t(3)oct\t\t

(4)None of above");

b[0]=Integer.parseInt(din.readLine());

System.out.println("\n2: Which of the following feature is not supported

by java ? ");

System.out.println("\n\t(1)Multithreading\t\t(2)Reflection\n\t

(3)Operator Overloading\t\t(4)Garbage Collection");

b[1]=Integer.parseInt(din.readLine());

System.out.println("\n3: Which of the following is not keyword in java ?");

System.out.println("\n\t(1)null\t\t(2)import\n\t(3)volatile\t(4)package");

b[2]=Integer.parseInt(din.readLine());

System.out.println("\n4: What is the full form of JVM");

System.out.println("\n\t(1)Java Virtual Machine\t\t(2)Java Variable

Machine\n\t(3)Java Virtual Mechanism\t(4)Java Variable Mechanism");

b[3]=Integer.parseInt(din.readLine());

System.out.println("\n5: What is the full form of ADT ?");

System.out.println("\n\t(1)Abstract Data Type\t\t(2)Abstract Development

tool\n\t(3)Abstract Design Tool\t\t(4)Advance Development Tool");

b[4]=Integer.parseInt(din.readLine());

for(i=0;i<5;i++)

{

if(a[i]==b[i])

j++;

}

System.out.println("\n\t\tHello, "+na+" YOUR SCORE : "+j+"/5");

if(j==5)

System.out.println("n\t\t\t\tCongrats...........!");

else if(j==4)

System.out.println("\n\t\t\t\tGood..............!");

else if(j==0)

System.out.println("\n\t\tSorry.....Better Luck Next Time...!");

else

System.out.println("\n\t\tThank You For Participate..........");

}

}

Output :

~~~~~~~~

Z:\Java\Lab>java quiz

Enter Your Name : Muthuraj

WELCOME Muthuraj

ALL THE BEST

1: The old name of Java was ?

(1)J language (2)oak

(3)oct (4)None of above

2

2: Which of the following feature is not supported by java ?

(1)Multithreading (2)Reflection

(3)Operator Overloading (4)Garbage Collection

3

3: Which of the following is not keyword in java ?

(1)null (2)import

(3)volatile (4)package

1

4: What is the full form of JVM

(1)Java Virtual Machine (2)Java Variable Machine

(3)Java Virtual Mechanism (4)Java Variable Mechanism

1

5: What is the full form of ADT ?

(1)Abstract Data Type (2)Abstract Development tool

(3)Abstract Design Tool (4)Advance Development Tool

1

Hello, Muthuraj YOUR SCORE : 5/5

Congrats...........!

java

Ex.NO : 7

java

Predefined Exception

java

import java.io.\*;

class exception

{

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

{

DataInputStream din=new DataInputStream(System.in);

try

{

int a=args.length;

System.out.println("a="+a);

int b=42/a;

int c[]={1};

c[42]=99;

}

catch(ArithmeticException ae)

{

System.out.println("\nDivide By Zero : "+ae);

}

catch(ArrayIndexOutOfBoundsException aie)

{

System.out.println("\nArray Index : "+aie);

}

try

{

int b,c;

System.out.println("Enter The Value Of B&C : ");

b=Integer.parseInt(din.readLine());

c=Integer.parseInt(din.readLine());

}

catch(NumberFormatException nfe)

{

System.out.println("\nNO Number : "+nfe);

}

try

{

int d[]=new int[-5];

}

catch(NegativeArraySizeException nae)

{

System.out.println("\nNegative Array : "+nae);

}

try

{

FileInputStream f=new FileInputStream("fw2.txt");

f.close();

}

catch(FileNotFoundException fe)

{ System.out.println("\nInvalid File Name OR Path : " +fe);}

System.out.println("\nAfter try/catch Block");

}

}

Output :

~~~~~~~~

Z:\Java\Lab>java exception

a=0

Divide By Zero : java.lang.ArithmeticException: / by zero

Enter The Value Of B&C :

NO Number : java.lang.NumberFormatException: For input string: ""

Negative Array : java.lang.NegativeArraySizeException

Invalid File Name OR Path : java.io.FileNotFoundException: fw2.txt

(The system cannot find the file specified)

After try/catch Block

Z:\Java\Lab>java exception muthu

a=1

Array Index : java.lang.ArrayIndexOutOfBoundsException: 42

Enter The Value Of B&C :

2

3

Negative Array : java.lang.NegativeArraySizeException

Invalid File Name OR Path : java.io.FileNotFoundException: fw2.txt

(The system cannot find the file specified)

After try/catch Block

java

Ex.NO : 8

java

User Define Exception

java

import java.io.\*;

class not extends Exception

{

private int detail;

not(int a)

{ detail=a; }

public String toString()

{return "Not Eligible["+detail+"]"; }

}

class below extends Exception

{

private int detail;

below(int a)

{ detail=a; }

public String toString()

{ return"Below Age["+detail+"]"; }

}

class define

{

public static void check(int a)throws Exception

{

if((a>0)&&(a<=18))

throw new not(a);

if(a<0)

throw new below(a);

if((a>18)&&(a<=100))

System.out.println("\nEligible To Vote");

}

public static void main(String args[])throws Exception

{

int b,c;

DataInputStream din=new DataInputStream(System.in);

do

{

try

{

System.out.print("\nEnter The Age : ");

b=Integer.parseInt(din.readLine());

check(b);

}

catch(Exception e)

{ System.out.println("\nCaught : "+e); }

System.out.print("\nDo You Want To Continue?(YES=1/NO=0) : ");

c=Integer.parseInt(din.readLine());

}

while(c==1);

}

}

Output :

~~~~~~~~

Z:\Java\Lab>java define

Enter The Age : -1

Caught : Below Age[-1]

Do You Want To Continue?(YES=1/NO=0) : 1

Enter The Age : 19

Eligible To Vote

Do You Want To Continue?(YES=1/NO=0) : 1

Enter The Age : 2

Caught : Not Eligible[2]

Do You Want To Continue?(YES=1/NO=0) : 0

----------------------------------------------------------------------------

Ex.NO : 9

java

Multilevel Inheritance

java

import java.io.\*;

class one

{

int rno,m1,m2,m3,m4;

String na;

DataInputStream din=new DataInputStream(System.in);

void getdata()

{

try

{

System.out.println("Enter The Required Details");

System.out.print("Name : ");

na=din.readLine();

System.out.print("Roll.NO : ");

rno=Integer.parseInt(din.readLine());

System.out.println("Marks In Following Subjects");

System.out.print("C : ");

m1=Integer.parseInt(din.readLine());

System.out.print("C++ : ");

m2=Integer.parseInt(din.readLine());

System.out.print("Java : ");

m3=Integer.parseInt(din.readLine());

System.out.print("Visual Basic : ");

m4=Integer.parseInt(din.readLine());

}

catch(Exception e)

{ System.out.println(e); }

}

}

class two extends one

{

int total;

float avg;

void cal()

{

total=m1+m2+m3+m4;

avg=total/4;

}

}

class three extends two

{

void dis()

{

System.out.println("\n\t\t\tVHNSNCollege MarkSheet");

System.out.println("Name : "+na+"\tRoll.NO : "+rno);

System.out.println("C : "+m1);

System.out.println("C++ : "+m2);

System.out.println("Java : "+m3);

System.out.println("Visual Basic : "+m4);

System.out.println("Total : "+total);

System.out.println("Average : "+avg);

}

}

class multilevel

{

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

{

int i,n;

three t[]=new three[10];

DataInputStream din=new DataInputStream(System.in);

System.out.println("\n\t\tStudent MarkList Proccessing\n");

System.out.print("Enter Total NO.of Students : ");

n=Integer.parseInt(din.readLine());

for(i=0;i<n;i++)

{

t[i]=new three();

t[i].getdata();

t[i].cal();

}

for(i=0;i<n;i++)

{ t[i].dis(); }

}

}

Output :

~~~~~~~~

Z:\Java\Lab>java multilevel

Student MarkList Proccessing

Enter Total NO.of Students : 1

Enter The Required Details

Name : Muthukumar

Roll.NO : 51

Marks In Following Subjects

C : 56

C++ : 68

Java : 96

Visual Basic : 35

VHNSNCollege MarkSheet

Name : Muthukumar Roll.NO : 51

C : 56

C++ : 68

Java : 96

Visual Basic : 35

Total : 255

Average : 63.0

java

Ex.NO : 10

java

Interface

java

import java.io.\*;

class one

{

int cr,pr,u,id;

String on;

DataInputStream ob1=new DataInputStream(System.in);

void get()throws IOException

{

System.out.print("\nEnter Owner Name : ");

on=ob1.readLine();

System.out.print("\nEnter ID : ");

id=Integer.parseInt(ob1.readLine());

System.out.print("\nEnter The Current Reading : ");

cr=Integer.parseInt(ob1.readLine());

System.out.print("\nEnter The Previous Reading : ");

pr=Integer.parseInt(ob1.readLine());

if(cr>pr)

{ u=cr-pr; }

else

{ System.out.println("\n Negative Reading...........!"); System.exit(0); }

}

}

interface two

{

void cal()throws IOException;

}

class three extends one implements two

{

int n,t,a;

public void cal()throws IOException

{

DataInputStream ob2=new DataInputStream(System.in);

System.out.print("\n\t1 : Home\n\t2 : Office\n\t3 : Industry\n\tChoose Your Option : ");

n=Integer.parseInt(ob2.readLine());

switch(n)

{

case 1 :

get();

t=u\*5;

if(u<100) {a=t\*2;}

else if((u>=100)&&(n<200)) {a=t\*3;}

else if((u>=200)&&(n<300)) {a=t\*4;}

else if((u>=300)&&(n<400)) {a=t\*5;}

else if((u>=500)&&(n<600)) {a=t\*6;}

System.out.println("\n\n----------------------------------------");

System.out.println("\t\tEB - Bill");

System.out.println("----------------------------------------");

System.out.println(" Name : "+on+"(Home) ID : "+id);

System.out.println("----------------------------------------");

System.out.println("\tCurrent Reading : "+cr);

System.out.println("\tPrevious Reading : "+pr);

System.out.println("\tUnits Consumed : "+u);

System.out.println("\tRate per Unit : 5");

System.out.println("----------------------------------------");

System.out.println("\tTotal Amount : "+a);

System.out.println("----------------------------------------");

break;

case 2 :

get();

t=u\*7;

if(u<100) {a=t\*2;}

else if((u>=100)&&(n<200)) {a=t\*3;}

else if((u>=200)&&(n<300)) {a=t\*4;}

else if((u>=300)&&(n<400)) {a=t\*5;}

else if((u>=500)&&(n<600)) {a=t\*6;}

System.out.println("\n\n----------------------------------------");

System.out.println("\t\tEB - Bill");

System.out.println("----------------------------------------");

System.out.println(" Name : "+on+"(Office) ID : "+id);

System.out.println("----------------------------------------");

System.out.println("\tCurrent Reading : "+cr);

System.out.println("\tPrevious Reading : "+pr);

System.out.println("\tUnits Consumed : "+u);

System.out.println("\tRate per Unit : 7");

System.out.println("----------------------------------------");

System.out.println("\tTotal Amount : "+a);

System.out.println("----------------------------------------");

break;

case 3 :

get();

t=u\*15;

if(u<100) {a=t\*2;}

else if((u>=100)&&(n<200)) {a=t\*3;}

else if((u>=200)&&(n<300)) {a=t\*4;}

else if((u>=300)&&(n<400)) {a=t\*5;}

else if((u>=500)&&(n<600)) {a=t\*6;}

System.out.println("\n\n----------------------------------------");

System.out.println("\t\tEB - Bill");

System.out.println("----------------------------------------");

System.out.println(" Name : "+on+"(Industry) ID : "+id);

System.out.println("----------------------------------------");

System.out.println("\tCurrent Reading : "+cr);

System.out.println("\tPrevious Reading : "+pr);

System.out.println("\tUnits Consumed : "+u);

System.out.println("\tRate per Unit : 15");

System.out.println("----------------------------------------");

System.out.println("\tTotal Amount : "+a);

System.out.println("----------------------------------------");

break;

default :

System.out.println("\n <<<<<Invalid Selection>>>>>");

System.exit(0);

}

}

}

class bill

{

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

{

int op;

three obj=new three();

DataInputStream din=new DataInputStream(System.in);

do

{

obj.cal();

System.out.print("\nDo You Want To Continue(YES=1)/(NO=0)? ");

op=Integer.parseInt(din.readLine());

}

while(op==1);

}

}

Output :

~~~~~~~~

Z:\Java\Lab>java bill

1 : Home

2 : Office

3 : Industry

Choose Your Option : 1

Enter Owner Name : Muthu

Enter ID : 456

Enter The Current Reading : 455

Enter The Previous Reading : 125

----------------------------------------

EB - Bill

----------------------------------------

Name : Muthu(Home) ID : 456

----------------------------------------

Current Reading : 455

Previous Reading : 125

Units Consumed : 330

Rate per Unit : 5

----------------------------------------

Total Amount : 4950

----------------------------------------

Do You Want To Continue(YES=1)/(NO=0)? 1

1 : Home

2 : Office

3 : Industry

Choose Your Option : 2

Enter Owner Name : Muthu

Enter ID : 4567

Enter The Current Reading : 4556

Enter The Previous Reading : 1245

----------------------------------------

EB - Bill

----------------------------------------

Name : Muthu(Office) ID : 4567

----------------------------------------

Current Reading : 4556

Previous Reading : 1245

Units Consumed : 3311

Rate per Unit : 7

----------------------------------------

Total Amount : 69531

----------------------------------------

Do You Want To Continue(YES=1)/(NO=0)? 1

1 : Home

2 : Office

3 : Industry

Choose Your Option : 3

Enter Owner Name : Siva

Enter ID : 6548

Enter The Current Reading : 7856

Enter The Previous Reading : 4568

----------------------------------------

EB - Bill

----------------------------------------

Name : Siva(Industry) ID : 6548

----------------------------------------

Current Reading : 7856

Previous Reading : 4568

Units Consumed : 3288

Rate per Unit : 15

----------------------------------------

Total Amount : 147960

----------------------------------------

Do You Want To Continue(YES=1)/(NO=0)? 0

java

Ex.NO : 11

java

Multithreading

java

import java.io.\*;

class one extends Thread

{

public void run()

{

try

{

for(int i=0;i<15;i++)

{

if(i%2==0)

System.out.println("Even Number : "+i);

Thread.sleep(500);

}

}

catch(Exception e)

{ }

}

}

class two extends Thread

{

public void run()

{

try

{

for(int i=0;i<15;i++)

{

if(i%2!=0)

System.out.println("Odd Number : "+i);

Thread.sleep(500);

}

}

catch(Exception e)

{}

}

}

class multi

{

public static void main(String args[])

{

one obj1=new one();

two obj2=new two();

obj1.start();

obj2.start();

}

}

Output :

~~~~~~~~

Z:\Java\Lab>java multi

Even Number : 0

Odd Number : 1

Even Number : 2

Odd Number : 3

Even Number : 4

Odd Number : 5

Even Number : 6

Odd Number : 7

Even Number : 8

Odd Number : 9

Even Number : 10

Odd Number : 11

Even Number : 12

Odd Number : 13

Even Number : 14

----------------------------------------------------------------------------

Ex.NO : 12

----------------------------------------------------------------------------

String Manipulation

----------------------------------------------------------------------------

import java.io.\*;

class manipulate

{

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

{

int n,s,e,ch;

String str1,str2;

DataInputStream din=new DataInputStream(System.in);

do

{

System.out.println("\n\t1:String Comparission\n\t2:Character Searching

\n\t3:Remove Space\n\t4:Reverse\n\t5:Delete\n\tEnter Your Coice :");

n=Integer.parseInt(din.readLine());

switch(n)

{

case 1:

System.out.println("\n\tString Comparission\n\t");

System.out.println("Enter Two Strings \n");

str1=din.readLine();

str2=din.readLine();

System.out.println("\nCase Sensitive Comparission : "

+str1.equals(str2)+"\n\t");

System.out.println("Without Case Sensitive Comparission : "

+str1.equalsIgnoreCase(str2)+"\n\t");

break;

case 2:

System.out.println("\n\tSearch The Index Position Of The

Character\n");

System.out.println("Enter The Sentence\n\t");

str1=din.readLine();

System.out.print("\nEnter One Character : ");

str2=din.readLine();

System.out.println("\nFirst Occurs : "+str1.indexOf(str2));

System.out.println("Last Occurs : "+str1.lastIndexOf(str2));

break;

case 3:

System.out.println("\n\tRemove Unwanted Space\n");

System.out.print("\nEnter The String : ");

str1=din.readLine();

System.out.println("\nAfter Removing : "+str1.trim());

break;

case 4:

System.out.println("\n\tString Reverse");

System.out.print("\nEnter The String : ");

str1=din.readLine();

StringBuffer so=new StringBuffer(str1);

System.out.println("\nAfter Reverse : "+so.reverse());

break;

case 5:

System.out.println("\n\tDelete A Particular Word\n");

System.out.print("\n\tEnter The Sentence : ");

str1=din.readLine();

StringBuffer sd=new StringBuffer(str1);

System.out.println("\nEnter Starting & Ending Position Of The

Word\n\t");

s=Integer.parseInt(din.readLine());

e=Integer.parseInt(din.readLine());

System.out.print("\n\tAfter Delete : "+sd.delete(s,e));

break;

default :

System.out.println("\n\t\t\t<<<<<INVALID SELECTION>>>>>");

}

System.out.println("\n\tDo You Want To Continue?(YES=0/NO=1)");

ch=Integer.parseInt(din.readLine());

}while(ch==0);

}

}

Output :

~~~~~~~~

Z:\Java\Lab>java manipulate

1:String Comparission

2:Character Searching

3:Remove Space

4:Reverse

5:Delete

Enter Your Coice :

1

String Comparission

Enter Two Strings

Muthu

Raj

Case Sensitive Comparission : false

Without Case Sensitive Comparission : false

Do You Want To Continue?(YES=0/NO=1)

0

1:String Comparission

2:Character Searching

3:Remove Space

4:Reverse

5:Delete

Enter Your Coice :

2

Search The Index Position Of The Character

Enter The Sentence

Muthuraj

Enter One Character : u

First Occurs : 1

Last Occurs : 4

Do You Want To Continue?(YES=0/NO=1)

0

1:String Comparission

2:Character Searching

3:Remove Space

4:Reverse

5:Delete

Enter Your Coice :

3

Remove Unwanted Space

Enter The String : Muthuraj

After Removing : Muthuraj

Do You Want To Continue?(YES=0/NO=1)

0

1:String Comparission

2:Character Searching

3:Remove Space

4:Reverse

5:Delete

Enter Your Coice :

4

String Reverse

Enter The String : Ramar

After Reverse : ramaR

Do You Want To Continue?(YES=0/NO=1)

0

1:String Comparission

2:Character Searching

3:Remove Space

4:Reverse

5:Delete

Enter Your Coice :

5

Delete A Particular Word

Enter The Sentence : Muthuraj

Enter Starting & Ending Position Of The Word

5

8

After Delete : Muthu

Do You Want To Continue?(YES=0/NO=1)

1

java

Ex.NO : 13

java

Animation Using Aplet

java

import java.awt.\*;

import java.applet.\*;

/\*

<applet code="animation" width=625 height=150>

</applet>

\*/

public class animation extends Applet implements Runnable

{

int i,x,flag=0,dist=0;

Thread t = null;

boolean stopFlag;

public void init()

{

setBackground(Color.white);

}

public void start()

{

t = new Thread(this);

stopFlag = false;

t.start();

}

public void run()

{

try

{

while(true)

{

if(flag==0)

{

Thread.sleep(1000);

dist+=3;

if(dist>=60)

flag=1;

repaint();

}

if(flag==1)

{

Thread.sleep(1000);

dist-=3;

if(dist<=0)

flag=0;

repaint();

}

}

}

catch(Exception e)

{ System.out.println("ERROR"); }

}

public void stop()

{

stopFlag = true;

t = null;

}

public void paint(Graphics g)

{

g.setColor(Color.yellow);

g.fillOval(50+dist,50,100,100);

g.setColor(Color.red);

g.drawOval(70+dist,80,10,10);

if(x==0)

{

g.setColor(Color.red);

g.drawOval(115+dist,80,10,10);

g.drawArc(84+dist,120,30,20,0,180);

x=1;

}

else

{

g.setColor(Color.black);

g.drawOval(115+dist,80,10,5);

g.setColor(Color.red);

g.drawArc(84+dist,120,30,20,180,185);

x=0;

}

g.setColor(Color.red);

g.drawRect(97+dist,80,1,25);

}

}

java

Ex.NO : 14

java

Ilustrate File Concept

java

import java.io.\*;

class fcopy

{

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

{

try

{

int i;

FileOutputStream f1=new FileOutputStream("fw1.txt");

FileInputStream f=new FileInputStream("fw.txt");

while((i=f.read())!=-1)

{f1.write((char)i);}

System.out.println("Data Copied");

f.close();

f1.close();

}

catch(FileNotFoundException fe)

{ System.out.println("Invalid File Name OR Path");}

}

}

Output :

~~~~~~~~

Text "fw.txt"

hello world

Text "fw1.txt"

hello world

java

Ex.NO : 15

java

JDBC

java

import java.io.\*;

import java.sql.\*;

class database

{

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

{

String na,s,id;

int n,m1,m2,m3,m4,m5,con;

Connection c=null;

Statement st=null;

ResultSet rs;

try

{

Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");

c=DriverManager.getConnection("jdbc:odbc:student");

st=c.createStatement();

DataInputStream d=new DataInputStream(System.in);

do

{

System.out.println("\tStudent Details\n\n\t1:Insert

\n\t2:View\n\t3:Delete");

System.out.print("\n\tChoose Your Option : ");

n=Integer.parseInt(d.readLine());

switch(n)

{

case 1:

System.out.println("Enter Student ID & Name ");

id=d.readLine();

na=d.readLine();

System.out.println("Enter Five Subject Marks");

m1=Integer.parseInt(d.readLine());

m2=Integer.parseInt(d.readLine());

m3=Integer.parseInt(d.readLine());

m4=Integer.parseInt(d.readLine());

m5=Integer.parseInt(d.readLine());

s="insert into student " + "values

('"+id+"','"+na+"',"+m1+","+m2+","+m3+","+m4+","+m5+");";

st.executeUpdate(s);

System.out.println("Record Created");

break;

case 2:

System.out.print("Enter Student ID : ");

id=d.readLine();

s="select \* from student where ID='"+id+"';";

rs=st.executeQuery(s);

if(rs.next())

{

System.out.println("-----------------------------------------------------");

System.out.println(" ID = "+rs.getString("ID")+"\t

Name = "+rs.getString("Name"));

System.out.println("-----------------------------------------------------");

System.out.println("\tC = "+rs.getInt("M1"));

System.out.println("\tC++ = "+rs.getInt("M2"));

System.out.println("\tJava = "+rs.getInt("M3"));

System.out.println("\tVB = "+rs.getInt("M4"));

System.out.println("\tDBMS = "+rs.getInt("M5"));

System.out.println("-----------------------------------------------------");

}

else

{System.out.println("Record Not Found");}

break;

case 3:

System.out.print("Enter Student ID : ");

id=d.readLine();

s="delete \* from student where ID='"+id+"';";

st.executeUpdate(s);

System.out.println("Record Deleted");

break;

default :

System.out.println("Invalid Selection");

System.exit(0);

}

System.out.print("Do You Want To Continue? (YES=1/NO=0) : ");

con=Integer.parseInt(d.readLine());

}

while(con==1);

c.close();

st.close();

}

catch(Exception e)

{ System.out.println(e.getMessage());}

}

}

Ouput :

~~~~~~~

Z:\Java\Lab>java database

Student Details

1:Insert

2:View

3:Delete

Choose Your Option : 1

Enter Student ID & Name

SMCA51

Muthukumar

Enter Five Subject Marks

65

85

74

95

67

Record Created

Do You Want To Continue? (YES=1/NO=0) : 1

Student Details

1:Insert

2:View

3:Delete

Choose Your Option : 2

Enter Student ID : SMCA51

-----------------------------------------------------

ID = SMCA51 Name = Muthukumar

-----------------------------------------------------

C = 65

C++ = 85

Java = 74

VB = 95

DBMS = 67

-----------------------------------------------------

Do You Want To Continue? (YES=1/NO=0) : 1

Student Details

1:Insert

2:View

3:Delete

Choose Your Option : 3

Enter Student ID : SMCA51

Record Deleted

Do You Want To Continue? (YES=1/NO=0) : 1

Student Details

1:Insert

2:View

3:Delete

Choose Your Option : 2

Enter Student ID : SMCA51

Record Not Found

Do You Want To Continue? (YES=1/NO=0) : 0