**LAB EXERCISE 3**

**PACKAGE LAB 3;**

**3.**Preparing counter functuion using static and non static variable.

Import java.util.Scanner;

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\*@author velmurugan

\*/

//Program for performing counter func using STATIC and NONSTATIC variable

public class static variable{

public static void main(string[] arg){

program obj=new program();

System.out.println(“sample:1”);

Obj.pro();

program obj1=new program();

system.out.println(“sample:2”);

obj1.pro();

program obj2=new program();

system.out.println(“sample:3”);

obj.2pro()}

}

Class program

{

Static int a=50;//static variable

Int b=10;//normal variable

Void pro()

{

a=a\*50;

b=b\*50;

system.out.println(a);

System.out.println(b);

}

}

**1.calendar program**

/\*\*

\*The class calendar program inputs a year,month and the weekday name

\*Of the 1st day of that month and generates its calendar

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\*@Program type :BlueJ program-java

\*/

Import java.util.\*;

Class calendar program

{

//function to match the given month and return its maximum days int findMaxDay(string mname,int y)

{

String months[]={“”,”January”,”February”,”March”,”April”,”May”,”June”,”July”,”August”,”September”,”October”,”November”,”December”};

int D[]={0,31,28,31,30,31,30,31,31,30,31,30,31};

if((y%400==0)||((y%100!=0)&&(y%4==0)))

{

D[2]=29;

}

int max =0;

for(int i=1;i<12;i++)

{

If(mname.equalsIgnoreCase(months[i]))

{

Max=D[i];//saving maximum day of given month

}

}

return max;

}

//Function to match the given week day name and return its weekday no.

int findDayNo(StringWname)

{

String days[]={“Sunday”,”Monday”,”Tuesday”,”Wednesday”,”Thursday”,Friday”,”Saturday”};

int f =0;

for(int i=0;i<7;i++)

{

if(wname.equalsIgnoreCase(days[i]))

{

f=i //Saving week day no.given day(eg.’0’ for Sunday)

}

}

return f;

}

//Function for creating thr calender void fillCalendar(int max,int f,String mname,int y)

{

int A[][]= new int [6][7];

int x =1,z=f;

for(int i=0;i<6;i++)

{

For(int j=f;j<7;j++)

{

If(x<=max)

{

A[i][j]= x;

X++;

}

}

F=0;

}

For(int j=0;j<z;j++)//Adjustment to bring last(6th) row elements to first row

{

A=[0][j]=A[5][j];

}

printCalendar(A,mname,y);//Calling function to print The calender

}

//Function for printing the calendar void printCalendar(int A[][],string mname,int y)

{

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

System.out.println(“\t\t\t”+mname+” “+y);

System.out.println(“\t-----------------------------------------“); system.out.println(“tSUN\tMON\tTUE\tWED\tTHU\tFRI\tSAT”);

System.out.println(“\t----------------------------------------------“);

For(int i=0;i<5;i++)

{

For(int j=0;j<7;j++)

{

If(A[i][j]!=0)

System.out.println(“\t”+A[i][j]);

Else

System.out.println(“\t”);

}

System.out.println(“\n\t------------------------------------------“);

}

}

Public static void main(string args[])

{

CalendarProgram ob= new calendar program();

Scanner sc=new scanner(system.in);

System.out.print(“enter the year:”);

Int y=sc.nextint();

System.out.print(“enter the month name(eg.January):”);

String mname=sc.next();

System.out.print(“enter the week day name(eg.Sunday) of 1st day of “+mname+”:”);

String wname =sc.next();

Int max =ob.findMaxDay(mname,y);

Int f = ob.findDayNo(wname);

Ob.fillCalendar(max,f,mname,y);

}

}

**2.Minimum of four numbers.**

Package lab3;

Import java.util.scanner;

//\*

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\*@author velmurugan

\*/

Public class min of 4{

Public static void main(string[]args){

Scanner obj=new scanner(system.in);

System.out.println(“enter the terms”);

Int a=obj.nextint();

Int b =obj.nextint();

Int c =obj.nextint();

Int d=obj.nextint();

Int e;

e=(a<b && a<c && a<d)?a:(b<c&& b<d)?b:(c<d)?c:d;

System.out.println(“the minimum number is “+e );

}