**Write a Java program to get and display information (year, month, day, hour, minute) of a default calendar.**

**Sample Solution**:

**Java Code:**

import java.util.\*;

public class Exercise2 {

public static void main (String[] args)

{

// Create a default calendar

Calendar cal = Calendar.getInstance();

// Get and display information of current date from the calendar:

System.out.println();

System.out.println("Year: " + cal.get (Calendar. YEAR));

System.out.println("Month: " + cal.get (Calendar. MONTH));

System.out.println("Day: " + cal.get (Calendar. DATE));

System.out.println("Hour: " + cal.get (Calendar. HOUR));

System.out.println("Minute: " + cal.get (Calendar. MINUTE));

System.out.println();

}

}

Copy

Sample Output:

Year: 2017

Month: 5

Day: 20

Hour: 1

Minute: 57

*N.B.: The result may vary for your system date and time.*

Graphical user interface, text, application

Description automatically generated

**Write a Java program to get the current time in New York.**

**Sample Solution**:

**Java Code:**

import java.util.\*;

public class Exercise5 {

public static void main (String [] args)

{

Calendar calNewYork = Calendar.getInstance();

calNewYork.setTimeZone(TimeZone.getTimeZone("America/New\_York"));

System.out.println();

System.out.println("Time in New York: " + calNewYork.get (Calendar.HOUR\_OF\_DAY) + ":” + calNewYork.get (Calendar. MINUTE) +":"+calNewYork.get(Calendar. SECOND));

System.out.println();

}

}

Sample Output:

Time in New York: 5:10:1

*N.B.: The result may vary for your system date and time*

Graphical user interface, text, application, Word

Description automatically generated

**Write a Java program to get the name of the first and last day of a month**.

**Sample Solution**:

**Java Code:**

import java.util.\*;

import java. time. \*;

import java. text. \*;

public class Exercise10 {

public static void main (String []args){

YearMonth ym = YearMonth.of(2016, 9);

String first Day = ym.atDay(1).getDayOfWeek().name();

String last Day = ym. atEndOfMonth(). getDayOfWeek ().name ();

System.out.println();

System.out.println(firstDay);

System.out.println(lastDay);

System.out.println();

}

}

Graphical user interface, text, application

Description automatically generated

Sample Output:

THURSDAY

FRIDAY

**Write a Java program to get a date after 2 weeks.**

**Sample Solution**:

**Java Code:**

import java.util.\*;

public class Exercise16 {

public static void main (String [] args)

{

//two weeks

int noOfDays = 14;

Calendar cal = Calendar.getInstance();

Date cdate = cal.getTime();

cal.add(Calendar.DAY\_OF\_YEAR, noOfDays);

Date date = cal.getTime();

System.out.println("\nCurrent Date: " + cdate+"\n");

System.out.println("Day after two weeks: " + date+"\n");

}

}

Copy

Sample Output:

Current Date: Tue Jun 20 17:12:49 IST 2017

Day after two weeks: Tue Jul 04 17:12:49 IST 2017

*N.B.: The result may vary for your system date and time.*

Graphical user interface, text, application

Description automatically generated

**Write a Java program to check a year is a leap year or not.**

**Sample Solution**:

**Java Code:**

public class Exercise18 {

public static void main(String[] args)

{

//year to leap year or not

int year = 2016;

System.out.println();

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

System.out.println("Year " + year + " is a leap year");

else

System.out.println("Year " + year + " is not a leap year");

System.out.println();

}

}

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Sample Output:

Year 2016 is a leap year

Graphical user interface, text, application

Description automatically generated

**Write a Java program to get current timestamp**.

**Sample Solution**:

**Java Code:**

import java. time.\*;

public class Exercise20 {

public static void main(String[] args)

{

Instant timestamp = Instant.now();

System.out.println("\nCurrent Timestamp: " + timestamp+"\n");

}

}

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Sample Output:

Current Timestamp: 2017-06-20T12:33:51.108Z

Graphical user interface, text, application

Description automatically generated

**Write a Java program to convert a string to date.**

**Sample Solution**:

**Java Code:**

import java.time.\*;

import java.util.\*;

import java time.format.dateTimeFormatter;

public class MainEx29 {

public static void main(String[] args) {

String string = "May 1, 2016";

DateTimeFormatter formatter = DateTimeFormatter.ofPattern("MMMM d, yyyy", Locale.ENGLISH);

LocalDate date = LocalDate.parse(string, formatter);

System.out.println();

System.out.println(date);

System.out.println();

}

}

Copy

Sample Output:

2016-05-01

Graphical user interface, text, application

Description automatically generated

**Write a Java program to calculate your age.**

**Sample Solution**:

**Java Code:**

import java.time.\*;

import java.util.\*;

public class Exercise32 {

public static void main(String[] args)

{

// date of birth

LocalDate pdate = LocalDate.of(1989, 04, 11);

// current date

LocalDate now = LocalDate.now();

// difference between current date and date of birth

Period diff = Period.between(pdate, now);

System.out.printf("\nI am %d years, %d months and %d days old.\n\n",diff.getYears(), diff.getMonths(), diff.getDays());

}

}

Copy

Sample Output:

I am 28 years, 2 months and 10 days old.

*N.B.: The result may vary for your system date and time.*

Graphical user interface, text, application

Description automatically generated