**Write a Java program to get a number from the user and print whether it is positive or negative.**

import java.util.Scanner;

class Exercise1

{

public static void main(String[] args)

{

Scanner in = new Scanner(System.in);

System.out.print("Input number: ");

int input = in.nextInt();

if (input > 0)

System.out.println("Number is positive");

else if (input < 0)

System.out.println("Number is negative");

else

System.out.println("Number is zero");

}

}

**Write a Java program that takes three numbers from the user and prints the greatest number.**

import java.util.Scanner;

public class Exercise3

{

public static void main(String[] args)

{

Scanner in = new Scanner(System.in);

System.out.print("Input the 1st number: ");

int num1 = in.nextInt();

System.out.print("Input the 2nd number: ");

int num2 = in.nextInt();

System.out.print("Input the 3rd number: ");

int num3 = in.nextInt();

if (num1 > num2)

if (num1 > num3)

System.out.println("The greatest: " + num1);

if (num2 > num1)

if (num2 > num3)

System.out.println("The greatest: " + num2);

if (num3 > num1)

if (num3 > num2)

System.out.println("The greatest: " + num3);

}

}

Write a Java program that takes a number from the user and generates an integer between 1 and 7. It displays the weekday name.

import java.util.Scanner;

public class Exercise5

{

public static void main(String[] args)

{

Scanner in = new Scanner(System.in);

System.out.print("Input number: ");

int day = in.nextInt();

System.out.println(getDayName(day));

}

// Get the name for the Week

public static String getDayName(int day)

{

String dayName = "";

switch (day) {

case 1: dayName = "Monday"; break;

case 2: dayName = "Tuesday"; break;

case 3: dayName = "Wednesday"; break;

case 4: dayName = "Thursday"; break;

case 5: dayName = "Friday"; break;

case 6: dayName = "Saturday"; break;

case 7: dayName = "Sunday"; break;

default:dayName = "Invalid day range";

}

return dayName;

}

}

**Write a Java program to find the number of days in a month.**

import java.util.Scanner;

public class Exercise7

{

public static void main(String[] strings)

{

Scanner input = new Scanner(System.in);

int number\_Of\_DaysInMonth = 0;

String MonthOfName = "Unknown";

System.out.print("Input a month number: ");

int month = input.nextInt();

System.out.print("Input a year: ");

int year = input.nextInt();

switch (month)

{

case 1:

MonthOfName = "January";

number\_Of\_DaysInMonth = 31;

break;

case 2:

MonthOfName = "February";

if ((year % 400 == 0) || ((year % 4 == 0) && (year % 100 != 0))) number\_Of\_DaysInMonth = 29;

else

number\_Of\_DaysInMonth = 28;

break;

case 3:

MonthOfName = "March";

number\_Of\_DaysInMonth = 31;

break;

case 4:

MonthOfName = "April";

number\_Of\_DaysInMonth = 30;

break;

case 5:

MonthOfName = "May";

number\_Of\_DaysInMonth = 31;

break;

case 6:

MonthOfName = "June";

number\_Of\_DaysInMonth = 30;

break;

case 7:

MonthOfName = "July";

number\_Of\_DaysInMonth = 31;

break;

case 8:

MonthOfName = "August";

number\_Of\_DaysInMonth = 31;

break;

case 9:

MonthOfName = "September";

number\_Of\_DaysInMonth = 30;

break;

case 10:

MonthOfName = "October";

number\_Of\_DaysInMonth = 31;

break;

case 11:

MonthOfName = "November";

number\_Of\_DaysInMonth = 30;

break;

case 12:

MonthOfName = "December";

number\_Of\_DaysInMonth = 31;

}

System.out.print(MonthOfName + " " + year + " has " + number\_Of\_DaysInMonth + " days\n");

}

}

Write a Java program that requires the user to enter a single character from the alphabet. Print Vowel or Consonant, depending on user input. If the user input is not a letter (between a and z or A and Z), or is a string of length > 1, print an error message

import java.util.Scanner;

public class Exercise8

{

public static void main(String[] args)

{

Scanner in = new Scanner(System.in);

System.out.print("Input an alphabet: ");

String input = in.next().toLowerCase();

boolean uppercase = input.charAt(0) >= 65 && input.charAt(0) <= 90;

boolean lowercase = input.charAt(0) >= 97 && input.charAt(0) <= 122;

boolean vowels = input.equals("a") || input.equals("e") || input.equals("i")

|| input.equals("o") || input.equals("u");

if (input.length() > 1)

System.out.println("Error. Not a single character.");

else if (!(uppercase || lowercase))

System.out.println("Error. Not a letter. Enter uppercase or lowercase letter.");

else if (vowels)

System.out.println("Input letter is Vowel");

else

System.out.println("Input letter is Consonant");

}

}

Write a Java program that takes a year from the user and prints whether it is a leap year or not.

import java.util.Scanner;

public class Exercise9

{

public static void main(String[] args)

{

Scanner in = new Scanner(System.in);

System.out.print("Input the year: ");

int year = in.nextInt();

boolean x = (year % 4) == 0;

boolean y = (year % 100) != 0;

boolean z = ((year % 100 == 0) && (year % 400 == 0));

if (x && (y || z))

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

else

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

}

}