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/*
 * Click
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*/
package com.mycompany.flowcontrol;
import java.util.ArrayList;
import java.util.List;
import java.util.Scanner;
/**
 *
 * @author prashnamshrestha
 */
public class FlowControl {
    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter number: ");

        // Qn 1
        int num = scanner.nextInt();
        if (num < 0) {
            System.out.println("Negative");
        }
        else {
            System.out.println("Positive");
        }

        // Qn 2
        if ((num % 2) == 0) {
            System.out.println("Even");
        }
        else {
            System.out.println("Odd");
        }

        // Qn 3
        if (num > 10) {
            System.out.println("Greater than 10");
        }
        else {
            System.out.println("Not greater than 10");
        }

        // Qn 4
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if  (num >= 18) {
    System.out.println("Can vote");
}
else {
    System.out.println("Cannot vote");
}

// Qn 5
if (num == 0) {
    System.out.println("It is zero");
}
else {
    System.out.println("Not zero");
}

// Qn 6
System.out.print("Enter num 1: ");
int num1 = scanner.nextInt();

System.out.print("Enter num 2: ");
int num2 = scanner.nextInt();

if (num1 > num2) {
    System.out.print(num1 + " is greater");
}
else if (num2 > num1) {
    System.out.print(num2 + " is greater");
}

// Qn 7
System.out.print("Enter marks: ");
int marks = scanner.nextInt();
if (marks >= 40) {
    System.out.println("Passed");
}
else {
    System.out.println("Failed");
}

// Qn 8
System.out.print("Enter year: ");
int year = scanner.nextInt();
if (((year % 400) == 0) || ((year % 4 ) == 0) && ((year % 100 ) != 0 ) ){
    System.out.println("It is leap year");
}
else {

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        System.out.println("It is not leap year");
    }

// Qn 9 DONE IN A COMPLEX WAY TO BOOST CONCEPT INSTEAD OF SIMPLER
WAY
System.out.print("Enter letter:");
char letter = scanner.next().charAt(0);

letter = Character.toLowerCase(letter);
boolean leapyear = false;
List<Character> vowels = new ArrayList<>();
vowels.add('a');
vowels.add('e');
vowels.add('i');
vowels.add('o');
vowels.add('u');

for (int i = 0; i < 5; i++) {
    if (vowels.get(i) == letter) {
        leapyear = true;
        System.out.println("It is vowel");
        break;
    }
}
if (!leapyear) {
    System.out.println("It is not a vowel");
}

// Qn 10
System.out.print("Enter number");
int numCheck = scanner.nextInt();
if (numCheck >= 1 && numCheck <= 100) {
    System.out.println("It is in between 1 and 100");
}
else {
    System.out.println("It is not in between 1 and 100");
}

// Qn 11
System.out.print("Enter number: ");
int number1 = scanner.nextInt();
System.out.print("Enter number: ");
int number2 = scanner.nextInt();
System.out.print("Enter number: ");
int number3 = scanner.nextInt();

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        System.out.printf("Largest: %s\n", Math.max(number1,
Math.max(number2, number3)));

    // Qn 12
    System.out.print("Enter grade: ");
    int grade = scanner.nextInt();
    if (grade >= 90) {
        System.out.println("A");
    }
    else if (grade >= 75) {
        System.out.println("B");
    }
    else if (grade >= 60) {
        System.out.println("C");
    }
    else {
        System.out.print("Fail");
    }

    // Qn 13
    System.out.print("Enter number: ");
    int numberDivisible = scanner.nextInt();
    if ((numberDivisible % 5 == 0) && (numberDivisible % 11 == 0)) {
        System.out.println("It is divisible by 5 and 11");
    }
    else {
        System.out.println("It is not divisible by 5 and 11");
    }

    // Qn 14
    System.out.print("Enter String: ");
    scanner.nextLine();
    String userString = scanner.nextLine();
    if (userString.equals(userString.toUpperCase())) {
        System.out.println("It is all uppercase");
    }
    else {
        System.out.println("It is not all uppercase");
    }

    // Qn 15
    System.out.print("Enter number: ");
    int number = scanner.nextInt();
    if (number % 3 == 0) {
        System.out.println("It is multiple of 3");
    }
    else if (number % 7 == 0) {

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        System.out.println("It is multiple of 7");
    }
}
}
```