1. Check if a number is even and divisible by 5

import java.util.Scanner;

public class EvenAndDivisible {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a number: ");

int num = sc.nextInt();

if (num % 2 == 0 && num % 5 == 0)

System.out.println("The number is even and divisible by 5.");

else

System.out.println("The number does not meet both conditions.");

}

}

2. Validate a triangle (sum of angles = 180)

import java.util.Scanner;

public class TriangleValidation {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter three angles: ");

int a = sc.nextInt();

int b = sc.nextInt();

int c = sc.nextInt();

if (a + b + c == 180)

System.out.println("Valid triangle");

else

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

}

}

3. Check if year is a leap year

import java.util.Scanner;

public class LeapYearCheck {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

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

int year = sc.nextInt();

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

System.out.println("Leap year");

else

System.out.println("Not a leap year");

}

}

4. Check character type (vowel/consonant/digit/special)

import java.util.Scanner;

public class CharacterType {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a character: ");

char ch = sc.next().charAt(0);

if (Character.isDigit(ch))

System.out.println("Digit");

else if (Character.isLetter(ch)) {

ch = Character.toLowerCase(ch);

if ("aeiou".indexOf(ch) != -1)

System.out.println("Vowel");

else

System.out.println("Consonant");

} else

System.out.println("Special character");

}

}

5. Check eligibility for vote, driving, and job using conditions

import java.util.Scanner;

public class EligibilityCheck {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter age: ");

int age = sc.nextInt();

if (age >= 18)

System.out.println("Eligible to vote");

else

System.out.println("Not eligible to vote");

if (age >= 16)

System.out.println("Eligible to drive");

else

System.out.println("Not eligible to drive");

if (age >= 21)

System.out.println("Eligible for job");

else

System.out.println("Not eligible for job");

}

}