public class TemperatureConverter {

// Method to convert Celsius to Fahrenheit

public static Decimal celsiusToFahrenheit(Decimal celsius) {

return (celsius \* 9 / 5) + 32;

}

// Method to convert Fahrenheit to Celsius

public static Decimal fahrenheitToCelsius(Decimal fahrenheit) {

return (fahrenheit - 32) \* 5 / 9;

}

}

/\*Decimal celsiusTemperature = 25;

Decimal fahrenheitTemperature = TemperatureConverter.celsiusToFahrenheit(celsiusTemperature);

System.debug('Temperature in Fahrenheit: ' + fahrenheitTemperature);

Decimal fahrenheitTemperature1 = 20;

Decimal celsiusTemperature1= TemperatureConverter.fahrenheitToCelsius(fahrenheitTemperature1);

System.debug('Temperature in Celsius: ' + celsiusTemperature1);\*/

public class Calculator {

public static Integer add(Integer num1, Integer num2) {

return num1 + num2;

}

public static Integer subtract(Integer num1, Integer num2) {

return num1 - num2;

}

public static Integer multiply(Integer num1, Integer num2) {

return num1 \* num2;

}

public static Decimal divide(Integer num1, Integer num2) {

if (num2 == 0) {

return null;

}

return (Decimal)num1 / num2;

}

}

/\*Integer result1 = Calculator.add(5, 3);

System.debug('addition:'+result1);

Integer result2 = Calculator.subtract(10, 4);

System.debug('subtraction:'+result2);

Integer result3 = Calculator.multiply(2, 6);

System.debug('multipilication:'+result3);

Decimal result4 = Calculator.divide(8, 2);

System.debug('division:'+result4);

\*/

public class BinaryToDecimalConverter {

public static Integer binaryToDecimal(String binaryNumber) {

Integer decimalNumber = 0;

Integer base = 1;

Integer length = binaryNumber.length();

for(Integer i = length - 1; i >= 0; i--) {

if(binaryNumber.substring(i, i+1).equals('1')) {

decimalNumber += base;

}

base \*= 2;

}

return decimalNumber;

}

}

/\*String binaryNumber = '1101';

Integer decimalNumber = BinaryToDecimalConverter.binaryToDecimal(binaryNumber);

System.debug('Decimal Number: ' + decimalNumber);\*/

public class MCQPage {

// Define a class to represent questions

public class Question {

public String text;

public List<String> options;

public Question(String qText, List<String> qOptions) {

text = qText;

options = qOptions;

}

}

// Define a method to display questions and capture responses

public static void displayMCQ() {

// Define questions

List<Question> questions = new List<Question>{

new Question('What is the capital of France?', new List<String>{'A. Paris', 'B. London', 'C. Berlin', 'D. Madrid'}),

new Question('What is 2 + 2?', new List<String>{'A. 3', 'B. 4', 'C. 5', 'D. 6'}),

new Question('Who painted the Mona Lisa?', new List<String>{'A. Leonardo da Vinci', 'B. Vincent van Gogh', 'C. Pablo Picasso', 'D. Michelangelo'})

};

// Display questions and capture responses

for (Integer i = 0; i < questions.size(); i++) {

Question q = questions[i];

System.debug('Question ' + (i+1) + ': ' + q.text);

for (String option : q.options) {

System.debug(option);

}

// Simulate capturing user response (could be replaced with actual user input logic)

String userResponse = 'B'; // For example, user selects option B

System.debug('User response: ' + userResponse);

System.debug('-----------------');

}

}

}

/\*

MCQPage.displayMCQ();\*/

public class PercentageCalculator {

// Method to calculate percentage

public static Decimal calculatePercentage(Decimal value, Decimal total) {

if (total == 0) {

return 0; // To avoid division by zero error

} else {

return (value / total) \* 100;

}

}

}

/\*Decimal value = 75;

Decimal total = 100;

Decimal percentage = PercentageCalculator.calculatePercentage(value, total);

System.debug('Percentage: ' + percentage);\*/