1.ANS

public class GradeCalculation {

public static void main(String[] args) {

// Given information

int totalStudents = 90;

int boys = 45;

double gradeAPercentage = 50.0;

int gradeABoys = 20;

// Calculate the total number of students getting grade 'A'

int gradeAStudents = (int) ((gradeAPercentage / 100) \* totalStudents);

// Calculate the total number of girls getting grade 'A'

int gradeAGirls = gradeAStudents - gradeABoys;

// Print the result

System.out.println("Total number of girls getting grade 'A': " + gradeAGirls);

}

}

2.ANS

import java.util.Scanner;

public class ReverseNumber {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Input a 3-digit number

System.out.print("Enter a 3-digit number: ");

int number = scanner.nextInt();

// Validate that the number is a 3-digit number

if (number >= 100 && number <= 999) {

// Reverse the number

int reversedNumber = reverseNumber(number);

// Output the result

System.out.println("Reversed Number: " + reversedNumber);

} else {

System.out.println("Please enter a valid 3-digit number.");

}

}

// Function to reverse a 3-digit number

static int reverseNumber(int num) {

int reversed = 0;

while (num != 0) {

int digit = num % 10;

reversed = reversed \* 10 + digit;

num /= 10;

}

return reversed;

}

}