June 24, 2022.

Question 1

import java.util.Scanner;

public class Marks {

    public static void main(String[] args) {

        double[] marks = new double[5];

        double sum\_of\_marks = 0, percentage = 0;

        Scanner scan = new Scanner(System.in);

        System.out.println("Calculate student's percentage: ");

        for (int i = 0; i < 5; i++) {

            if (i == 0) {

                System.out.println("Enter a mark: ");

                marks[i] = scan.nextDouble();

                System.out.println("Mark " + (i) + ": " + marks[i] + "\n");

            } else if (i == 4) {

                System.out.println("Enter last mark: ");

                marks[i] = scan.nextDouble();

                System.out.println("Mark " + (i + 1) + ": " + marks[i] + "\n");

            } else {

                System.out.println("Enter another mark: ");

                marks[i] = scan.nextDouble();

                System.out.println("Mark " + (i + 1) + ": " + marks[i] + "\n");

            }

        }

        for (int mark = 0; mark < marks.length; mark++) {

            sum\_of\_marks += marks[mark];

            percentage = sum\_of\_marks \* 100 / 500;

        }

        if (percentage >= 60 && percentage <= 100) {

            System.out.println("Grade: A");

        } else if (percentage >= 50 && percentage < 60) {

            System.out.println("Grade: B");

        } else if (percentage >= 40 && percentage < 50) {

            System.out.println("Grade: C");

        } else if (percentage < 40) {

            System.out.println("Grade: Fail");

        }

        // // closing scanner

        scan.close();

    }

}

Question 2

public class ReverseStringDemo {

    public static void main(String[] args) {

        ReverseString2 reversing\_the\_string = new ReverseString2();

        String result = reversing\_the\_string.reverseStr(reversing\_the\_string.input\_string);

        System.out.println("Reversed string: " + result);

    }

}

import java.util.Scanner;

public class ReverseString2 {

    String input\_string;

    String reversed\_string;

    public String reverseStr(String str) {

        Scanner input = new Scanner(System.in);

        System.out.println("Enter a string: ");

        input\_string = input.nextLine();

        reversed\_string = "";

        for (int i = input\_string.length() - 1; i >= 0; i--) {

            reversed\_string += input\_string.charAt(i);

        }

        input.close();

        return reversed\_string;

    }

}

Question 3

import java.util.Scanner;

public class Three {

    public static void main(String[] args) {

        getNumber();

    }

    public static int getNumber() {

        Scanner mobile = new Scanner(System.in);

        System.out.print("Enter your mobile number: ");

        int numberInput = mobile.nextInt();

        System.out.println("Your mobile number is: " + numberInput);

        mobile.close();

        return numberInput;

    }

}

Question 4

import java.util.Scanner;

public class Four {

    public static void main(String[] args) {

        Scanner input\_number = new Scanner(System.in);

        do {

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

            int check\_number = input\_number.nextInt();

            String result = check\_number > 0

                    ? "The " + check\_number + " is positive"

                    : check\_number < 0

                            ? "The " + check\_number + " is negative"

                            : "The number is zero";

            System.out.println(result);

        } while (input\_number.hasNextInt());

        input\_number.close();

    }

}