



COMSATS University Islamabad
Department of Computer Science
Programming Fundamentals (CSC103) – BSSE & BSDS – 2A
Class Assignment – 2 (CLO-2)

Due Date: November 13, 2022 (11:59 PM)

Total Marks: 5 x 2 = 10

Instructions

Submit assignment on MS-Teams and bring its printed form in Viva.

Answer to all questions should begin on new page.

Assignment document must contain a title page showing Assignment-2, your name and registration number.

Assignment document must also contain JAVA source code along with output.

You must follow proper JAVA naming convention for identifiers and properly document your source code

Name of the Assignment document file should be your Registration Number. E.g. FA21BCS01.docx / FA21BCS01.pdf

Submit your work via MS Teams

Plagiarism: Plagiarism is not allowed. If found plagiarized, zero marks will be awarded in the assignment.



COMSATS University Islamabad
Department of Computer Science
Programming Fundamentals (CSC103) – BSSE & BSDS – 2A
Class Assignment – 2 (CLO-2)

Question – 1:

Write a program that prompts the user to enter a Social Security number in the format DDD-DD-DDDD, where D is a digit. Your program should check whether the input is valid. Here are sample runs:

Enter a SSN: 232-23-5435

232-23-5435 is a valid social security number

Enter a SSN: 23-23-5435

23-23-5435 is an invalid social security number

Question – 2:

Write a program that prompts the user to enter two characters and displays the major and status represented in the characters. The first character indicates the major and the second is number character 1, 2, 3, 4, which indicates whether a student is a freshman, sophomore, junior, or senior. Suppose the following characters are used to denote the majors:

M: Mathematics

C: Computer Science

I: Information Technology

Sample Run

Enter two characters: M1

Mathematics Freshman

Enter two characters: T3

Invalid input

Question – 3:

Assume a vehicle plate number consists of three uppercase letters followed by four digits. Write a program to generate a plate number.

Question – 4:

Write a program that prompts the user to enter a decimal integer and displays its corresponding binary value. Don't use Java's `Integer.toString(int)` in this program.

Question – 5:

The controversial issue of global warming has been widely publicized by the film “An Inconvenient Truth,” featuring former Vice President Al Gore. Mr. Gore and a U.N. network of scientists, the Intergovernmental Panel on Climate Change, shared the 2007 Nobel Peace Prize in recognition of “their efforts to build up and disseminate greater knowledge about man-made climate change.” Research both sides of the global warming issue online (you might want to search for phrases like “global warming skeptics”). Create a five-question multiple choice quiz on global warming, each question having four possible answers (numbered 1–4). Be objective and try to fairly represent both sides of the issue. Next, write an application that administers the quiz, calculates the number of correct answers (zero through five) and returns a message to the user. If the user correctly answers five questions, print “Excellent”; if four, print “Very good”; if three or fewer, print “Time to brush up on your knowledge of global warming,” and include a list of some of the websites where you found your facts