

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, NAGPUR
Department of Computer Science & Engineering
III Sem (CSE), V Sem (ECE)
Sessional-I, August 2022

Introduction to Object Oriented Programming (CSL 202)

Duration: 1 Hours

Marks: 15

Instructions

All the questions are compulsory. All questions carry equal marks

1. Suppose that we have to develop a program in Java to cater the student's academic information in IIIT, Nagpur. Define the fields like id, dept., and grade of the students. Define a field called total grade that represents the sum of the grades of all the students of the class. Define a parameterized constructor to initialize these fields by getting input from the user. Define a method to calculate an average of their grades. Also, define a method to display the students information. Assume the number of students of your choice. Write a program in Java that should have a CLASS, say Student to represent student information and another CLASS, say a Student_Test having main function to test this Student class.[CO1]
2. Write a java program that will accept a string of characters and a mask string. The program will then remove all the characters of the mask string from the given string.[CO3]
Example:
String x = We belong to Russia
Mask = Wbos
Output = e elng t Ruia
3. The students of IIIT have applied for campus placement. Write a java program that will accept roll numbers from the students interested in campus placements. Check if there is a duplication of roll numbers. If yes, then how many times that roll number has re-appeared.[CO3]
Example
Input: BT21CSE001, BT21CSE002, BT21CSE001, BT21CSE003, BT21CSE003,
Output:
BT21CSE001-2
BT21CSE002-1
BT21CSE003-2
etc