**CLOSED BOOK**



**MID-TERM EXAMINATION**

***Pemrograman Berorientasi Objek***

**TIF/SIF41**

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| **Session**: Semester 4 –2015/2016 | **Date:** 12 April 2016 |
| **Faculty**: Engineering and Computer Science | **Duration:** 135 minutes |
| **Study Program**: Information Technology | **Permitted Materials:**  Computer / Laptop |
| **Level of Study**: Undergraduate (S1) |  |

**INSTRUCTIONS TO CANDIDATES:**

1. Check the following exam paper information:

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| **Exam paper**:   * Total number of pages : 2 * Attached materials : - * Total number of sections : 1 * Total number of questions : 2 |
| **Instructions**:  You are required to answer all compulsory questions in sections A (a total of 2 questions). The total number of marks you can be awarded is 100 marks. For specific instructions, please refer to appropriate sections. |

1. Please write your name and student ID on the exam paper and answer sheets.

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| Student Name | …………………………………………….. |
| Student ID | …………………………………………….. |

1. Candidates may use this exam paper to write notes as necessary, but should not remove it from the examination venue for any reason.
2. Any form of cheating or attempt to cheat is a serious offence leading to dismissal.

**Section A – 100 questions**

2 questions, 50 marks each, total 100marks

Complete the solutions of these two following questions using IDE Netbeans. The project files must be compressed before being sent to my email addres ([yusuf.lestanto@bakrie.ac.id](mailto:yusuf.lestanto@bakrie.ac.id)). The compressed file must be named with student’s name. Cheating is not tolerated and will be down graded to **ZERO**.

1. **(50 points)** A parking garage charges a $2.00 minimum fee to park for up to three hours. The garage charges an additional $0.50 per hour for each hour or part there of in excess of three hours. The maximum charge for any given 24-hour period is $10.00. Assume that no car parks for longer than 24 hours at a time. Write an application that calculates and displays the parking charges for each customer who parked in the garage yesterday. You should enter the hours parked for each customer. The program should display the charge for the current customer and should calculate and display the running total of yesterday’s receipts. It should use the method calculateCharges to de- termine the charge for each customer.
2. Write an application that prints the following diamond shape. You may use output statements that print a single asterisk (\*), a single space or a single new- line character. Maximize your use of repetition (with nested for statements), and minimize the number of output statements.



---------- end of exam paper ---------