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| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| final design | **Course:** | **Computer Org & Assembly Lang Lab** | **Course Code:** | **EL213** |
| **Program:** | **BS(Computer Science)** | **Semester:** | **Fall 2017** |
| **Duration:** | **30 Minutes** | **Total Marks:** | **10** |
| **Paper Date:** | **27-Sep-17** | **Weight** | **3.33%** |
| **Section:** | **A** | **Page(s):** | **1** |
| **Exam:** | **Quiz-I** |  |  |
| **Instruction/Notes:** | You can use your previous codes, negative marks will be awarded in case of plagiarism | | | |

1. Write a program determines whether given number N can be expressed as XY where Y > 1 and X > 0. Store 1 in DX if we can express otherwise store 0 in DX. (MUL instruction is not allowed)

Examples:

AX= 8

DX = 1 (because 8 can be expressed as 2^3)

AX= 49

DX = 1 (because 49 can be expressed as 7^2)

AX= 48

DX = 0 (because 48 can't be expressed as X^Y)