COMPUTER SCIENCE DEPARTMENT MILITARY COLLEGE OF SIGNALS, NUST FUNDAMENTALS OF PROGRAMMING BESE 16 A

Exam: Midterm lab exam Instructor: Shahela Saif

Type of Paper: Regular **Total Marks**: 20

Semester: Fall 2010 Time Allowed: 120 min

Note:

1. Use of course work slides or other helping material is not allowed.

- 2. Submit your work in the assignments folder as other regular assignments.
- 3. Copied submissions will be cancelled altogether.

4. Viva will be conducted from all students.

Question .No.1 (10)

Create a program that works as a simple calculator. The program takes two numbers from user and calculates their sum, difference, product, quotient.

Sample Output:

Enter value for A: 4

Enter value for B: 5

Calculate

- 1. Sum
- 2. Product
- 3. Difference
- 4. Quotient

Enter Choice: 1

Sum: A+B: 9 B+A: 9

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Enter Choice: 3

Difference: A-B: -1 B-A: 1

Question .No.2 (10)

Create a program that takes any integer n from user and displays all prime numbers smaller than it.

A prime number is not divisible by any number smaller than it. Continue dividing n by each number between 2 and square-root of n. If any of them divide evenly then n is not prime.

Sample Output:

Enter a number: 14

Prime numbers smaller than 14: 2, 3, 5, 7, 11

Extra Credit: (01)

For indented, neat and commented code.