**Assignment 1 Submission Deadline: 14-05-2016**

**Submission Procedure:** mail me at [hasnain@cse.du.ac.bd](mailto:hasnain@cse.du.ac.bd)

**Subject of the mail should be: [cse1101][assignment1][roll X], where X is your roll number. If you don’t understand anything, mail me or call me.**

1. Write a program that will take a number as input and find if it is positive or negative.

**Example:**

10

Positive

1. Write a program that will take 2 numbers and print the minimum of the two.

**Example:**

10 20

Minimum: 10

1. Write a program that will take a floating point value as input and determine whether it is an integer or not.

**Example**

10.000

Integer

**Example**

10.001

Not Integer

1. Write a program that will take a number as input and determine whether it is even or odd.

**Example:**

24

Even

1. Write a program that will take the initial principal, A (integer) deposited in an account and yearly cumulative interest rate, R (float) as inputs. Now print if the account holder will be a millionaire after 4 years.

**Example:**

Enter initial money: 5600

Enter interest rate in percentage: 12.5

No. He won’t be a millionaire.

**Example:**

Enter initial money: 860000

Enter interest rate in percentage: 5.5

MILLIONAIRE!!!

1. Write a program, that will solve the equation ax2+bx+c = 0. Take a,b,c as input. And show the value(s) of x as output. If there is only one root you need to show only one. If there is no real root, then print “No real root”.

**Example:**

Enter a: 2

Enter b: 5

Enter c: -30

x = -5.32, 2.82

**Example:**

Enter a: 1

Enter b: 10

Enter c: 25

x = -5.00

**Example:**

Enter a: 1

Enter b: 0

Enter c: 25

No real root.

1. Take the sides of a triangle and determine whether it is a right angled triangle.

**Example:**

Enter the sides:

3

4

5

Yes. It is a right angled triangle.

1. Given three numbers as input, print them in sorted (increasing) order.

**Example:**

Enter the numbers:

3

1

2

Sorted numbers: 1 2 3