

## Lab # 7

November 03, 2016

**Task 1:** Write a C program which allows the user to enter values for the width and length of a wall in feet. The program then calculates the area of the wall in square feet. Moreover, the program should let the user enter price of a gallon of paint. Assume that a gallon of paint covers 300 square feet of wall. The program should output the required number of gallons as well as the cost. **(5 marks)**

Example:

```
Enter the width in feet: 100
Enter the length in feet: 150
Enter the price of one gallon of paint: 2000

The area of the wall: 15000 square feet
50 gallons are required at the cost of Rupees 100000
```

**Task 2:** You're writing a software for the newly designed ATM machine your company plans to launch this year. In this task, you'll simulate how an ATM dispenses money to its customers.

Write a C program which continues to request a withdrawal amount from the user until -999 is entered. If the amount entered is not evenly divisible by 500, your program should prompt "You must enter multiples of 500 only!". Otherwise, dispense the required 500 rupee notes to the user. **(5 marks)**

Example:

```
Enter an amount: 400
You must enter multiples of 500 only!

Enter an amount: 2500
5 x 500 notes dispensed!

Enter an amount: -999
Thank you for using HBL!
```

### Grading and LMS Submission

- Make sure that the lab engineer has graded your programs until 5 pm.
- You've uploaded the C source files in Zip format over LMS until 5:30 pm.