LAB 8 (Section: A)

Name _____ Roll No. _____ Time Allowed: 90 min

It's an open books and open notes lab session. You CANNOT share your code with each other. Use of Internet is strictly prohibited for this lab. Any such attempt will result in a straight 50% marks deduction.

Problem Statement [10 Marks]

Transform the following Python like code into MIPS Assembly. Assemble your code and let the course staff/instructor check the output.

```
a = 5
b = 2
c = 3
x = input("Enter a value for x: ")
y = a * x * x + b * x + c
print("The result of the quadratic equation is," y)
```

Problem Statement [10 Marks]

Write a program to retrieve two numbers from a user, and swap those number using only the XOR operation. You should not use a temporary variable to store the numbers while swapping them. Your program should include a proper and useful prompt for input, and print the results in a meaningful manner.

Important Note

You need to write code on MARS IDE, and once a task is completed make sure to get it marked by the lab engineer in class timings. Any task not duly signed by the lab engineer **will not** be considered for grading.

Your code should be well commented and there should be no hardcoded elements.

Upload your solution on Moodle