Department of Computer Science

NIT Calicut

**CS2093 Hardware Laboratory**

Winter Semester 2017-2018

**Assignment set7: Floating point Operations**

**Instructions**

1. All the assignments should be submitted through Eduserver.

2. Pen drives are not permitted inside the lab.

3. Practice problems will not be evaluated.

**Practice Problem**

1. Write a program to read two floating point numbers and to print its sum, difference and product.

2. Write a NASM program to find the average of n floating point numbers

**Assignment problem**

1. Write a program to calculate the perimeter of a circle, it should accept the radius from the

user.

2. Write a program to calculate the roots of a quadratic equation.

3. Write a program to sort an array of floating point numbers.

4. Write a program to read a set of floating point numbers (use array to store the values) and find

all pairs (a,b) such that a+b=k, where a,b are elements of the array and ‘k’ is a given value

5. Compute the sin series below

Sin x = x - (x^3)/3! + (x^5)/5! - (x^7)/7! + . . .

Calculate Sin(X) by processor instruction and compare the result with the above one.