Lab Assignment 02

1. Write a program to calculate the real roots of a quadratic equation.
2. Write a program containing functions that can substitute the in-built functions toupper() and tolower().
3. Write a program containing function that can substitute the in-built function pow() with integer parameters.
4. Write a program to find factorial, permutation and combination by defining three functions, one each for each operation.
5. Write a program containing a function that checks whether a given year is a leap year and returns 1 or 0 accordingly.
6. Write a program containing function which, whenever called, draws a horizontal line at the cursor point.

**Algorithms, Programs, Results and Discussions:**

**Questionnaire:**

1. A function can return at most one value – critically comment on this.
2. What do you mean by a function prototype? Why is it required?
3. Will there be a problem if the calling and the called functions have variables with the same name?
4. What are the advantages, disadvantages and limitations of functions?