# Laboratory 6

Title of the Laboratory Exercise: Introductory exercises in Haskell

1. Introduction and Purpose of Experiment

Students get familiar with the Haskell platform using a set of simple exercises.

1. Aim and Objectives

Aim

* To develop Haskell programs using GHCi

Objectives

At the end of this lab, the student will be able to

* Use GHCi to develop Haskell programs
* Develop Haskell programs edit and execute them successfully

1. Experimental Procedure

Students are given a set of instructions to be executed on the computer. The instructions should be edited and executed and documented by the student in the lab manual. They are expected to answer questions posed in section 5 based on their experiment.

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| **Documentation:** | |
| a. Procedure and Algorithm(s): | **Procedure:**   * + - 1. Generating a new Java Application   Open Netbeans and create a new Project and select Java -> Java Application, give a proper package name and a proper Project Name, this will generate a CLI Interface Java Application, with a main method in a Class File with the Project’s name.   * + - 1. Design the Class Diagram   Analyze the given problem and identify the classes and objects, find the common state and action of the various objects and classes, basically perform an object decomposition and make a UML Diagram for the same, this will make the development easier while implementing the application. Execute and Debug  Execute the program by clicking on Clean and Build and then Run, and also perform proper tests on it. Verify that the program is as per the specifications required.   * + - 1. Documentation   Write documentation for the methods and Classes implemented in the program, with its usage and parameter, the developer’s name and date.  **Algorithms:**  **Algorithm compareTo for Employee**  Params : Employee e to be compared with the current employee  Step 1: Start  Step 2: return getSalary of current employee – getSalary of employee e  Step 5: Stop  **Algorithm toString for Employee**  Step 1: Start  Step 2: print firstName, lastName, aadharNumber, getSalary  Step 3: Stop |
| b. Conclusions : |  |

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| **Results and Discussions:** |
| **Screenshot:** |
| **Discussion:** |