**National University of Computer & Emerging Sciences**

**Karachi Campus**



**TITLE OF PROJECT**

**Project Proposal**

**Programming Fundamentals**

**Section: BCS-1C**

**Group Members:**

**25k-0749 S.M.Mahboor Hussain**

**25k-0812 Syed Maqbool Ahmed**

Project Proposal

* **Introduction**

We are going to develop a GUI-based Unit Conversion Tool, which will be used to convert the unit of a physical quantity or currency from one to another. The physical quantities available will be:

1. Length,
2. Speed,
3. Temperature,
4. Time,
5. Area.

The currencies available will be:

1. Pakistani Rupee,
2. US Dollar,
3. British Pound,
4. UAE Dinar,
5. Saudi Riyal.

* **Existing System**

The tool will be similar in functionality and usability to the unit converter provided by Google, implementing a drop-down style menu and a text box to take input from user.

* **Problem Statement**

However, a problem with the utility provided by google is that both currency and physical quantity are not incorporated into one menu. Moreover, you do not have an option to convert to multiple units at a time, which can cause reduction in speed if you want to do multiple conversions.

* **Proposed Solution**

Our tool will have both currency and physical quantity option in one place. The user will select the required option. Furthermore, user will only need to choose the unit of quantity they’re giving as input. The tool will automatically convert the entered quantity in to other units, and all the results will be displayed to user.

* **Salient Features**
* Home page to select between Physical Quantity & Currency,
* Return to Home Button in each section,
* Ability to convert to multiple units / currencies at once,
* Drop-down style menu,
* User friendly interface.
* **Tools & Technologies**

Programming will be done in C Language, using the GTK library to implement GUI. Application will be supported by Windows Operating System.