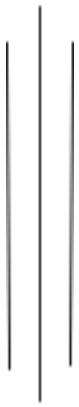
Tribhuvan University
Institute of Engineering
Pulchowk Campus

Department of Electronics and Computer Engineering



A project proposal on

ATM MACHINE

Bachelor's Degree in Electrical Engineering (BEL)
First Year First Part (I/I)

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ATM Machine in C

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Overview

In our day-to-day life we encounter a lot of device, and equipment, we don't know about the working mechanism and processing inside them. So, we students of **079BEL-CD*(Raunak Mishra , Prabesh Sapkota, Rakesh Karki, Sanjaya Limbu)*** teamed up to create a simple C program to demonstrate the working of the software of an ATM Machine. This program provides users with the features of an **ATM Machine**.

Introduction

This *ATM Machine* project aims to create a simple working mechanism demonstration of an **ATM** with the help of C programming language and aims to create a great understanding of core C features like library files, string operations, multi-dimensional arrays and reading, writing operations in file. This project will help us brainstorm the code for the internal working mechanism of an **ATM**, store data in the backend, display and edit the local data files and more.

Objectives

The main objective of this project are listed below:

1. To use minimum specification of device to make the program device friendly on one hand whereas help us acknowledge the concept of limited resource.
2. To use the concept of C Programming to develop a program that is useful to the user and unique.
3. To implement the concept of dictionary data type by using multidimensional character arrays in the program.
4. To use the concept of string catenation in C-language for string operations.
5. To use the concept of file and file operations in C language for storage of records.

Features

This **ATM Machine** system can help the users to perform following banking tasks without visiting the bank:

1. **Check Balance:** Help users check the balance in their account.
2. **Deposit Balance:** Helps users to deposit a sum of money to their account and add it to their main balance.
3. **Withdraw Balance**: Helps users to withdraw a certain amount of money from their account and deduct it from their main balance.

Users will be able to stay on the output screen only for a pre-specified amount of time and will be logged out after the specified time, and will have to re-login to get the output screen back for security reasons.

Conclusion

With the completion of this project we aim to have a concrete understanding of the working mechanism of **ATM Machine**,and a crystal clear concept of *different library files*, *string operations*, creating and using specific data types with *multi-dimensional arrays*, and reading and writing *.txt files* in C language.