***Project Description:***

I have developed a project in C programme based on how an **ATM (Automated Teller Machine)**

Works. I have included the features of,

* Depositing
* Withdrawal
* Displaying balance
* Check of Pin number

It is my mini-project. The **depositing** feature is used to add money to our bank account. The **withdrawal** function is used to draw money from our balance in our account. The **displaying balance** function is one which is used to view the balance of our account. The **Check of Pin number feature** is the most important feature which implements the security login for all users n the ATM. Ultimately it shows the features of a mini-ATM in this project.

***Code:***

#include<stdio.h> //these are the header files, stdio.h is for printing and scaning values

#include<conio.h> //the clrscr,getch are controlled here

#include<string.h> //the usage of array of characters

void deposit();

void withdraw(); //these three are the void functions, we declare.

void display();

int bal=1000,count=0; /\* I declared the variables globally ,keeping my minimum

int array[20]; balance as 1000, and the count as 0. There is the

char array1[20]; character array to verify my account. \*/

char a[]="Rahul Chidambaram";

char b[]="1234";

char c[4];

void main() //here the function begins to execute

{

int choice=0;

clrscr();

while(choice!=4) //checking loop of users choice for the below features

{

printf("\n 1=deposit 2=withdraw 3= display balance 4=exit");

scanf("%d",&choice);

switch(choice) //user’s choice

{

case 1:

printf("deposit \n");

deposit(); //it enters the void deposit function

break;

case 2:

printf(" withdraw \n");

withdraw(); //it enters the void withdrawal function

break;

case 3:

printf("display balance \n");

display();

break; //it enters the void display function

case 4:

break;

default:

printf("\n enter a valid number 1,2,3,4");

}

}

getch(); //for getting the characters

}

void deposit()

{

int amount;

if(count<=2) //the user can only hit the pin for three times, incase of a wrong pin

{

printf("enter the password");

scanf("%s",&c);

if(strcmp(b,c)==0) //it checks for a correct pin,it its correct it enters inside

{

printf("welcome %s \n",a);

printf("\n enter the amount to be deposited: \n");

scanf("%d",&amount);

bal=bal+amount; //min balance is added with deposit amount

}

else

{

printf("invalid pin");

count++; //incrementing count of times

}

}

if(count>2)

{

printf("\n your account has been locked");

}

}

void display()

{

printf("\n your balance is %d \n",bal);

}

void withdraw()

{

int amount;

if(count<=2)

{

printf("enter the password");

scanf("%s",&c);

if(strcmp(b,c)==0)

{

if(bal>0)

{

printf("welcome %s \n",a);

printf("\n amount to be withdrawn:");

scanf("%d",&amount);

if(amount<=bal)

{

bal=bal-amount;

}

else

{

printf("insufficient funds");

}

}

}

else

{

printf("invalid pin");

count++;

}

}

else

{

printf("\n your account has been locked");

}

}

}