INTRODUCTION

The project starts with -

- Enter 1- NEW USER
- Enter 2 DISPLAY ALL CUSTOMERS
- Enter 3 SEARCH CUSTOMER
- Enter 4 OPEN NEW ACCOUNT
- Enter 5 DISPLAY ALL ACCOUNTS
- Enter 6 SEARCH AN ACCOUNT
- Enter 7 EXIT
- Enter 0 HELP

Process

FIRSTLY, we have done the planning in a paper work regarding what have to do on the assigned project **ATM PROJECT**.

SECONDLY, we discussed our planning with our subject teacher and then he provided us the right path to perform the work.

NEXT, we started our project on foot paths of our subject teacher.

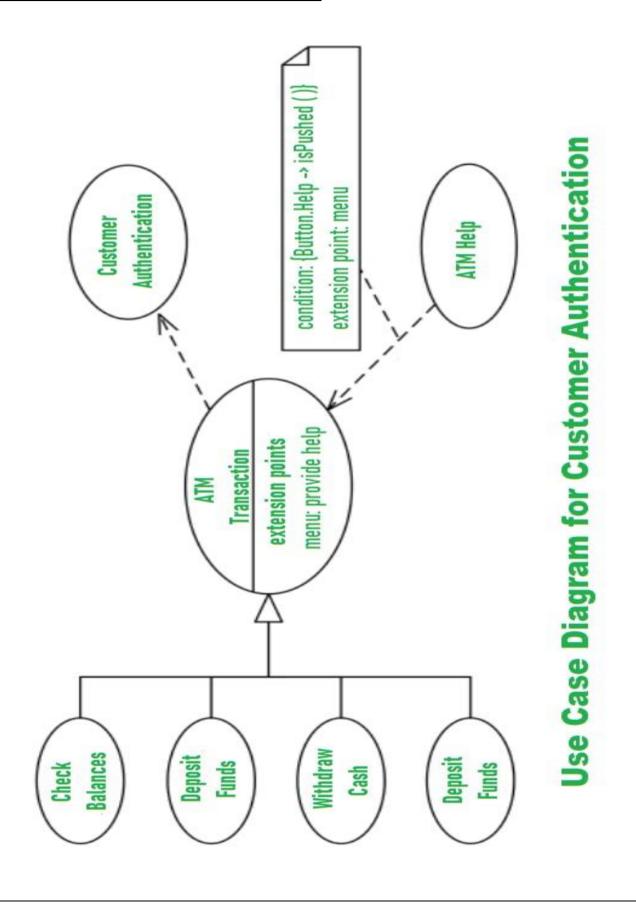
THEN, we started our coding, coding took around 2 and half months for completion.

OBJECTIVE OF THE PROJECT

ATM Simulator project is written in Python. The project file contains a python script (atm.py). This is a simple console based system which is very easy to use. Talking about the system, it contains various functions which include Account Statement, Withdrawing, Depositing amount and changing the pin. Here, at first the user has to enter an existing username, when the username matches the system proceed toward the next procedure i.e asking pin number. When a user passes all these sign-in procedures, he/she can use all those features. It is too easy to use, he/she can check their respective account statements.

While depositing or withdrawing amount, he/she just has to enter the amount then the system calculates the total remaining balance of the respective account and displays to the user. And the user can view all these transactions from the account statement. In this ATM Simulator, the user can also change the pin number. For this, the user has to enter the New pin code and then confirm it in order to change the pin code. This simple console based ATM simulator provides the simple account balance management of a respective account. It contains all the essential features. There is no database connection or neither any external text or other files used in this mini project to save user's data. Everything is set inside the source code whether its pin code or the amount

DESIGN OF THE SYSTEM



System Requirements of the Project

Recommended System Requirements

- Processors: Intel® CoreTM i3 processor 4300M at 2.60 GHz.
- Disk space: 2 to 4 GB.
- Operating systems: Windows® 10, MACOS, and UBUNTU.
- Python Versions: 3.X.X or Higher.

Minimum System Requirements

- Processors: Intel Atom® processor or Intel® CoreTM i3 processor. *
- Disk space: 1 GB.
- Operating systems: Windows 7 or later, MACOS, and UBUNTU.
- Python Versions: 2.7.X, 3.6.X.

Prerequisites before installing MySQL Connector Python

- You need root or administrator privilege to perform the installation process.
- Python must be installed on your machine.

Note: – MySQL Connector Python requires python to be in the system's PATH. Installation fails if it doesn't find Python.

On Windows, If Python doesn't exist in the system's PATH, please manually add the directory containing python.exe yourself.

PYTHON CODING

```
#*************Designed and Maintained By:
import mysql.connector
# GLOBAL VARIABLES DECLARATION
myConnnection =""
cursor=""
password =""
cid=""
#MODULE TO CHECK MYSOL CONNECTIVITY
def MYSQLconnectionCheck ():
  global myConnection
  global userName
  global password
  userName = input("\n ENTER MYSQL SERVER'S USERNAME : ")
  password = input("\n ENTER MYSQL SERVER'S PASSWORD : ")
  myConnection=mysql.connector.connect(host="localhost",user=userName,passwd=password, database='atm',
auth_plugin='mysql_native_password')
  if myConnection:
    return myConnection
  else:
    print("\nERROR ESTABLISHING MYSQL CONNECTION !")
    myConnection.close()
# MODULE TO CREATE NEW CUSATOMER
def newCustomer():
  global cid
  if myConnection:
    cursor=myConnection.cursor()
    createTable ="""CREATE TABLE IF NOT EXISTS CUSTOMER(CID VARCHAR(10) PRIMARY
KEY, CNAME VARCHAR(30) NOT NULL, ADDRESS VARCHAR(30) NOT NULL, PHONE VARCHAR(12) NOT
NULL) """
    cursor.execute(createTable)
    print("\nPlease Fill All The Information Carefully !")
    cid=input("Please Enter Customer ID : ")
    cname=input("Please Enter Customer Name : ")
    address=input("Please Enter Customer Address: ")
    phone=input("Please Enter Customer Contact No.: ")
```

```
sql='INSERT INTO CUSTOMER(cid,cname,address,phone) values(%s,%s,%s,%s)'
    values=(cid,cname,address,phone)
    cursor.execute(sql,values)
    cursor.execute("COMMIT")
    cursor.close()
    print("\nNew Customer Added Successfully !")
# MODULE TO DISPLAY CUSTOMER INFORMATION:
def displayAllCustomer():
  if myConnection:
    cursor=myConnection.cursor()
    cursor.execute("SELECT * FROM CUSTOMER")
    data = cursor.fetchall()
    if data:
      print("\n*****DETAILS OF ALL CUSTOMER*****")
      print(data)
    else:
      print("Sorry ! No Record Found , Please Try Again ! ")
  else:
    print("\nERROR ESTABLISHING MYSQL CONNECTION !")
# MODULE TO SEARCH A CUSTOMER
def searchCustomer():
  global cid
  if myConnection:
    cursor=myConnection.cursor()
    cid=input("Please Enter Customer ID : ")
    sql="SELECT * FROM CUSTOMER WHERE CID = %s"
    values=(cid,)
    data=cursor.execute(sql,values)
    data = cursor.fetchall()
    if data:
      print("\n*****CUSTOMER DETAILS*****")
      print(data)
    else:
      print("Sorry ! Customer NOT Found , Please Try Again ! ")
    print("\nSomthing Went Wrong ,Please Try Again !")
```

MODULE TO OPEN A NEW ACCOUNT

```
def newAccount():
  global cid
  if myConnection:
    cursor=myConnection.cursor()
    cid=input("Please Enter Customer ID : ")
    sql="SELECT * FROM CUSTOMER WHERE CID = %s"
    values=(cid,)
    data=cursor.execute(sql,values)
    data = cursor.fetchall()
    if data:
      createTable ="""CREATE TABLE IF NOT EXISTS ACCOUNT(CID VARCHAR(10), ACCOUNT NO INT
PRIMARY KEY, ACCOUNT_TYPE VARCHAR(20) NOT NULL, AMOUNT INT NOT NULL, PIN INT NOT
NULL UNIQUE)"""
      cursor.execute(createTable)
      account_no=int(input("PLEASE ENTER THE ACCOUNT NUMBER [0-9]: "))
      account type=input("PLEASE ENTER THE ACCOUNT TYPE [ S-SAVING / C - CURRENT : ")
      amount=int(input("PLEASE ENTER THE AMOUNT TO DEPOSIT: "))
      ATM pin=int(input("PLEASE ENTER THE ATM PIN [ FOUR DIGITIS ONLY ] : "))
      sql='INSERT INTO ACCOUNT (cid,account_no,account_type,amount ,pin) VALUES (%s,%s,%s,%s,%s)'
      values1=(cid,account no,account type,amount,ATM pin)
      cursor.execute(sql,values1)
      cursor.execute("COMMIT")
      print("\nNew Account Opend Successfully !")
    else:
      print("Sorry ! Customer NOT Found , Please Try Again ! ")
  else:
    print("\nSomthing Went Wrong ,Please Try Again !")
# MODULE TO DISPLAY ALL ACCOUNTS
def displayAllAccounts():
  if myConnection:
    cursor=myConnection.cursor()
    cursor.execute("SELECT * FROM ACCOUNT")
    data = cursor.fetchall()
    if data:
      print("\n*****DETAILS OF ALL CUSTOMER*****")
      print(data)
    else:
      print("Sorry ! No Account Information , Please Try Again ! ")
  else:
    print("\nERROR ESTABLISHING MYSQL CONNECTION !")
```

```
def searchAccount():
  global cid
  if myConnection:
    cursor=myConnection.cursor()
    cid=input("PLEASE ENTER CUSTOMER ID : ")
    account no=int(input("PLEASE ENTER THE ACCOUNT NUMBER [0-9]: "))
    sql="SELECT * FROM ACCOUNT WHERE CID = %s AND ACCOUNT_NO = %s"
    values=(cid,account no)
    data=cursor.execute(sql,values)
    data = cursor.fetchall()
    if data:
      print("\n*****CUSTOMER ACCOUNT DETAILS*****")
      print(data)
    else:
      print("Sorry! Account Infromation NOT Found, Please Try Again!")
  else:
    print("Somthing Went Wrong ,Please Try Again !")
# MODULE TO WITHDRAW AMOUNT
def withdrawAmount():
  count = 3
  if myConnection:
    cursor=myConnection.cursor()
    account_no=int(input("PLEASE ENTER THE ACCOUNT NUMBER [0-9]: "))
    sql="SELECT * FROM ACCOUNT WHERE ACCOUNT_NO =%s"
    values=(account_no,)
    data=cursor.execute(sql,values)
    data = cursor.fetchall()
    if data:
      while True:
        ATM_PIN=int(input("PLEASE ENTER THE ATM PIN - ONLY 3 ATTEMPTS ARE ALLOWED: "))
        sql='SELECT * FROM ACCOUNT WHERE PIN = %s'
        values=(ATM_PIN,)
        cursor.execute(sql,values)
        data = cursor.fetchall()
        if data:
          amount=int(input("PLEASE ENTER AMOUNT TO WITHDRAW:"))
          sql='UPDATE ACCOUNT SET AMOUNT = AMOUNT - %s'
          cursor.execute(sql ,(amount,))
          cursor.execute("COMMIT")
          print("****** TRANSACTION SUCCESSFULLY COMPLETED! ******")
          print("***** PLEASE TAKE MONEY AND REMOVE YOUR CARD! *****")
          break
          print("Wrong Pin ! Please enter a Valid PIN")
          count=count-1
          print("You are left with only ",count ,"Attempts")
        if count == 0:
          print("Your Card has been Blocked, Please Visit the Branch to activate it")
```

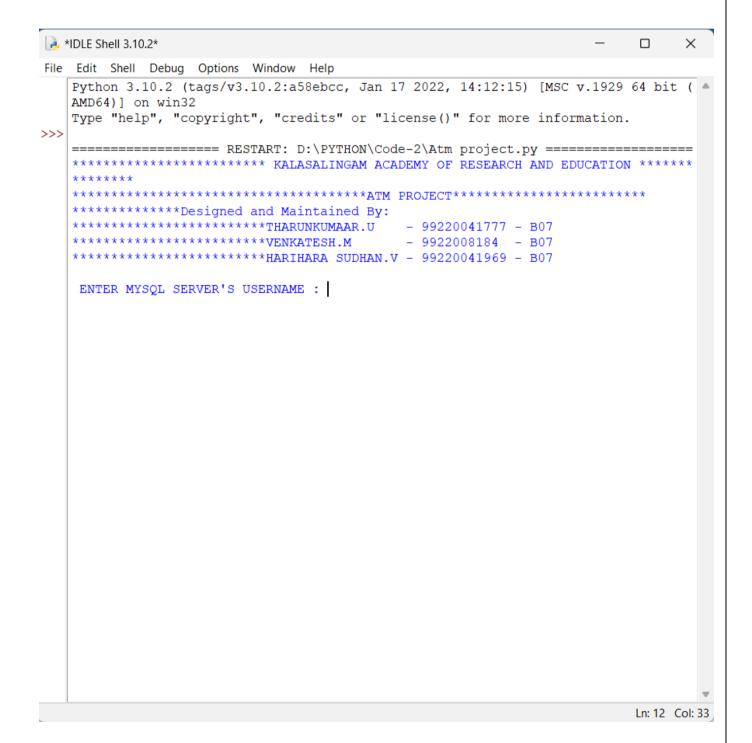
```
else:
        print("Sorry! Account Infromation NOT Found, Please Try Again!")
#MODULE TO PROVIDE HELP FOR USER
def helpMe():
 print("Please, Visit The Branch To Download The Mannual!!!")
# MAIN SCREEN
print("**************************Designed and Maintained By:")
#STARTING POINT OF THE SYSTEM
myConnection = MYSQLconnectionCheck ()
if myConnection:
 MYSQLconnectionCheck()
 while(1):
   print("\n!==========!")
   print("!
           PLEASE ENTER 1 FOR NEW USER
   print("!
           PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
                                                            !")
                                                      !")
   print("!
           PLEASE ENTER 3 TO SEARCH A CUSTOMER
   print("!
           PLEASE ENTER 4 TO OPEN NEW ACCOUNT
                                                      !")
           PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
                                                            !")
   print("!
                                                      !")
           PLEASE ENTER 6 TO SEARCH AN ACCOUNT
   print("!
   print("!
           PLEASE ENTER 7 TO WITHDRAW AMOUNT
                                                      !")
   print("!
           PLEASE ENTER 8 TO EXIT
                                  !")
   print("!
           PLEASE ENTER 0 FOR HELP !")
                                    ==****END****======!")
   print("\n!===
   choice = int(input("\n Please Enter Your Choice : "))
   if choice == 1:
     newCustomer()
   elif choice == 2:
     displayAllCustomer()
   elif choice == 3:
     searchCustomer()
   elif choice == 4:
     newAccount()
```

```
elif choice==5:
       displayAllAccounts()
    elif choice==6:
       searchAccount()
    elif choice==7:
       withdrawAmount()
    elif choice==8:
       break
    elif choice==0:
       helpMe()
    else:
      print("Sorry ,May Be You Are Giving Me Wrong Input, Please Try Again !!! ")
  else:
    print("Check Your MYSQL Connection First !!! ")
#THANKING YOU :) !!!
# END OF THE PROJECT
```

Output of the Project

Finally, we conclude our work and present the output of the Project.

MAIN SCREEN



STARTING OF SOFTWARE

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ENTER MYSQL SERVER'S USERNAME : root										
ENTER MYSQL SERVER'S PASSWORD : root			ı							
ENTER MYSQL SERVER'S USERNAME : root			١							
ENTER MYSQL SERVER'S PASSWORD : root			ı							
!=======!										
! PLEASE ENTER 1 FOR NEW USER !			- 8							
! PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS !			- 8							
! PLEASE ENTER 3 TO SEARCH A CUSTOMER !			- 8							
! PLEASE ENTER 4 TO OPEN NEW ACCOUNT !			-1							
! PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS !			- 8							
! PLEASE ENTER 6 TO SEARCH AN ACCOUNT !			н							
! PLEASE ENTER 7 TO WITHDRAW AMOUNT !			- 8							
! PLEASE ENTER 8 TO EXIT !			н							
! PLEASE ENTER 0 FOR HELP !			п							
!=======!										
Please Enter Your Choice :										
			V							

FOR NEW USER

▶ *IDLE Shell 3.10.2* — □ X

File Edit Shell Debug Options Window Help

```
CONGRATULATIONS ! YOUR MYSQL CONNECTION HAS BEEN ESTABLISHED !
PLEASE ENTER 1 FOR NEW CUSTOMER!
     PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
     PLEASE ENTER 3 TO SEARCH A CUSTOMER
     PLEASE ENTER 4 TO OPEN NEW ACCOUNT
     PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
     PLEASE ENTER 6 TO SEARCH AN ACCOUNT
     PLEASE ENTER 7 TO WITHDRAW AMOUNT
     PLEASE ENTER 8 TO EXIT !
Please Enter Your Choice: 1
CREATE TABLE IF NOT EXISTS CUSTOMER(CID int(10) PRIMARY KEY, CNAME VARCHAR(30) NOT NULL
, ADDRESS VARCHAR (30) NOT NULL , PHONE VARCHAR (10) NOT NULL)
Please Fill All The Information Carefully !
Please Enter Customer ID: 100
Please Enter Customer Name : Tharun Kumaar U
Please Enter Customer Address : Bharathi Nagar
Please Enter Customer Contact No.: 8434567891
New Customer Added Successfully !
PLEASE ENTER 1 FOR NEW CUSTOMER!
     PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
     PLEASE ENTER 3 TO SEARCH A CUSTOMER
     PLEASE ENTER 4 TO OPEN NEW ACCOUNT
     PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
     PLEASE ENTER 6 TO SEARCH AN ACCOUNT
     PLEASE ENTER 7 TO WITHDRAW AMOUNT
     PLEASE ENTER 8 TO EXIT !
Please Enter Your Choice :
```

Ln: 53 Col: 28

DISPLAY CUSTOMER DETAILS

```
*IDLE Shell 3.10.2*
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File Edit Shell Debug Options Window Help
  ,ADDRESS VARCHAR (30) NOT NULL , PHONE VARCHAR (10) NOT NULL)
  Please Fill All The Information Carefully !
  Please Enter Customer ID: 100
  Please Enter Customer Name : Tharun Kumaar U
  Please Enter Customer Address : Bharathi Nagar
  Please Enter Customer Contact No.: 8434567891
  New Customer Added Successfully !
   PLEASE ENTER 1 FOR NEW CUSTOMER!
        PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
        PLEASE ENTER 3 TO SEARCH A CUSTOMER
        PLEASE ENTER 4 TO OPEN NEW ACCOUNT
        PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
        PLEASE ENTER 6 TO SEARCH AN ACCOUNT
        PLEASE ENTER 7 TO WITHDRAW AMOUNT
        PLEASE ENTER 8 TO EXIT !
  Please Enter Your Choice: 2
  *****DETAILS OF ALL CUSTOMER****
  [(100, 'Tharun Kumaar U', 'Bharathi Nagar', '8434567891')]
   PLEASE ENTER 1 FOR NEW CUSTOMER!
        PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
        PLEASE ENTER 3 TO SEARCH A CUSTOMER
        PLEASE ENTER 4 TO OPEN NEW ACCOUNT
        PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
        PLEASE ENTER 6 TO SEARCH AN ACCOUNT
        PLEASE ENTER 7 TO WITHDRAW AMOUNT
        PLEASE ENTER 8 TO EXIT !
  Please Enter Your Choice :
                                                                   Ln: 70 Col: 28
```

TO SEARCH A CUSTOMER

```
*IDLE Shell 3.10.2*
File Edit Shell Debug Options Window Help
  PLEASE ENTER 1 FOR NEW CUSTOMER!
       PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
       PLEASE ENTER 3 TO SEARCH A CUSTOMER
       PLEASE ENTER 4 TO OPEN NEW ACCOUNT
       PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
       PLEASE ENTER 6 TO SEARCH AN ACCOUNT
       PLEASE ENTER 7 TO WITHDRAW AMOUNT
       PLEASE ENTER 8 TO EXIT !
  Please Enter Your Choice: 3
  Please Enter Customer ID: 100
  *****CUSTOMER DETAILS****
  [(100, 'Tharun Kumaar U', 'Bharathi Nagar', '8434567891')]
  PLEASE ENTER 1 FOR NEW CUSTOMER!
       PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
        PLEASE ENTER 3 TO SEARCH A CUSTOMER
       PLEASE ENTER 4 TO OPEN NEW ACCOUNT
       PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
       PLEASE ENTER 6 TO SEARCH AN ACCOUNT
       PLEASE ENTER 7 TO WITHDRAW AMOUNT
       PLEASE ENTER 8 TO EXIT !
  Please Enter Your Choice: 3
  Please Enter Customer ID: 101
  Sorry ! Customer NOT Found , Please Try Again !
  ! -----!
       PLEASE ENTER 1 FOR NEW CUSTOMER!
       PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
       PLEASE ENTER 3 TO SEARCH A CUSTOMER
       PLEASE ENTER 4 TO OPEN NEW ACCOUNT
       PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
                                                          Ln: 81 Col: 28
```

TO OPEN NEW ACCOUNT

IDLE Shell 3.10.2 Х File Edit Shell Debug Options Window Help PLEASE ENTER 1 FOR NEW CUSTOMER! PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS PLEASE ENTER 3 TO SEARCH A CUSTOMER PLEASE ENTER 4 TO OPEN NEW ACCOUNT PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS PLEASE ENTER 6 TO SEARCH AN ACCOUNT PLEASE ENTER 7 TO WITHDRAW AMOUNT PLEASE ENTER 8 TO EXIT ! Please Enter Your Choice: 4 Please Enter Customer ID: 100 CREATE TABLE IF NOT EXISTS ACCOUNT (CID VARCHAR (10), ACCOUNT NO INT PRIMARY KEY, AC COUNT TYPE VARCHAR(20) NOT NULL , AMOUNT INT NOT NULL , PIN INT NOT NULL) PLEASE ENTER THE ACCOUNT NUMBER [0-9]: 202256004 PLEASE ENTER THE ACCOUNT TYPE [S-SAVING / C - CURRENT : S PLEASE ENTER THE AMOUNT TO DEPOSIT : 1000000 PLEASE ENTER THE ATM PIN [FOUR DIGITIS ONLY] : 1001 New Account Opend Successfully ! ! ----- PLEASE ENTER 1 FOR NEW CUSTOMER! PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS PLEASE ENTER 3 TO SEARCH A CUSTOMER PLEASE ENTER 4 TO OPEN NEW ACCOUNT PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS PLEASE ENTER 6 TO SEARCH AN ACCOUNT PLEASE ENTER 7 TO WITHDRAW AMOUNT PLEASE ENTER 8 TO EXIT ! Please Enter Your Choice: 4 Please Enter Customer ID: 101 Sorry ! Customer NOT Found , Please Try Again !

TO DISPLAY ALL ACCOUNTS

```
*IDLE Shell 3.10.2*
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File Edit Shell Debug Options Window Help
     PLEASE ENTER 6 TO SEARCH AN ACCOUNT !
       PLEASE ENTER 7 TO WITHDRAW AMOUNT
       PLEASE ENTER 8 TO EXIT !
  Please Enter Your Choice: 4
  Please Enter Customer ID: 101
  Sorry ! Customer NOT Found , Please Try Again !
  PLEASE ENTER 1 FOR NEW CUSTOMER!
       PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
       PLEASE ENTER 3 TO SEARCH A CUSTOMER
       PLEASE ENTER 4 TO OPEN NEW ACCOUNT
       PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
       PLEASE ENTER 6 TO SEARCH AN ACCOUNT
       PLEASE ENTER 7 TO WITHDRAW AMOUNT
       PLEASE ENTER 8 TO EXIT !
  Please Enter Your Choice: 5
  ****DETAILS OF ALL CUSTOMER****
  [('100', 202256004, 'S', 1000000, 1001)]
  PLEASE ENTER 1 FOR NEW CUSTOMER!
       PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
       PLEASE ENTER 3 TO SEARCH A CUSTOMER
       PLEASE ENTER 4 TO OPEN NEW ACCOUNT
       PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
       PLEASE ENTER 6 TO SEARCH AN ACCOUNT
       PLEASE ENTER 7 TO WITHDRAW AMOUNT
       PLEASE ENTER 8 TO EXIT !
  Please Enter Your Choice :
                                             Ln: 136 Col: 28
```

TO SEARCH AN ACCOUNT

IDLE Shell 3.10.2 X File Edit Shell Debug Options Window Help Please Enter Your Choice: 6 PLEASE ENTER CUSTOMER ID : 100 PLEASE ENTER THE ACCOUNT NUMBER [0-9]: 202256004 *****CUSTOMER ACCOUNT DETAILS**** [('100', 202256004, 'S', 1000000, 1001)] PLEASE ENTER 1 FOR NEW CUSTOMER! PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS PLEASE ENTER 3 TO SEARCH A CUSTOMER PLEASE ENTER 4 TO OPEN NEW ACCOUNT PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS PLEASE ENTER 6 TO SEARCH AN ACCOUNT PLEASE ENTER 7 TO WITHDRAW AMOUNT PLEASE ENTER 8 TO EXIT ! !-----! Please Enter Your Choice: 6 PLEASE ENTER CUSTOMER ID : 101 PLEASE ENTER THE ACCOUNT NUMBER [0-9]: 202278005 Sorry ! Account Infromation NOT Found , Please Try Again ! PLEASE ENTER 1 FOR NEW CUSTOMER! PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS PLEASE ENTER 3 TO SEARCH A CUSTOMER PLEASE ENTER 4 TO OPEN NEW ACCOUNT PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS PLEASE ENTER 6 TO SEARCH AN ACCOUNT PLEASE ENTER 7 TO WITHDRAW AMOUNT PLEASE ENTER 8 TO EXIT ! Please Enter Your Choice :

TO WITHDRAW AMOUNT

IDLE Shell 3.10.2 File Edit Shell Debug Options Window Help PLEASE ENTER 7 TO WITHDRAW AMOUNT PLEASE ENTER 8 TO EXIT ! Please Enter Your Choice: 6 PLEASE ENTER CUSTOMER ID: 101 PLEASE ENTER THE ACCOUNT NUMBER [0-9]: 202278005 Sorry ! Account Infromation NOT Found , Please Try Again ! PLEASE ENTER 1 FOR NEW CUSTOMER! PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS PLEASE ENTER 3 TO SEARCH A CUSTOMER PLEASE ENTER 4 TO OPEN NEW ACCOUNT PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS PLEASE ENTER 6 TO SEARCH AN ACCOUNT PLEASE ENTER 7 TO WITHDRAW AMOUNT PLEASE ENTER 8 TO EXIT ! Please Enter Your Choice: 7 PLEASE ENTER THE ACCOUNT NUMBER [0-9]: 202256004 PLEASE ENTER THE ATM PIN - ONLY 3 ATTEMPTS ARE ALLOWED : 1001 PLEASE ENTER AMOUNT TO WITHDRAW: 15000 ****** TRANSACTION SUCCESSFULLY COMPLETED ! ****** ***** PLEASE TAKE ONEY AND REMOVE YOUR CARD ! ***** ! ______! PLEASE ENTER 1 FOR NEW CUSTOMER! PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS PLEASE ENTER 3 TO SEARCH A CUSTOMER PLEASE ENTER 4 TO OPEN NEW ACCOUNT PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS PLEASE ENTER 6 TO SEARCH AN ACCOUNT PLEASE ENTER 7 TO WITHDRAW AMOUNT PLEASE ENTER 8 TO EXIT !

BLOCKED PIN

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*IDLE Shell 3.10.2*
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File Edit Shell Debug Options Window Help
         PLEASE ENTER 6 TO SEARCH AN ACCOUNT
         PLEASE ENTER 7 TO WITHDRAW AMOUNT
         PLEASE ENTER 8 TO EXIT !
   Please Enter Your Choice: 7
   PLEASE ENTER THE ACCOUNT NUMBER [0-9]: 202256004
   PLEASE ENTER THE ATM PIN - ONLY 3 ATTEMPTS ARE ALLOWED: 1001
   PLEASE ENTER AMOUNT TO WITHDRAW: 0
   ****** TRANSACTION SUCCESSFULLY COMPLETED ! ******
   **** PLEASE TAKE ONEY AND REMOVE YOUR CARD ! ****
   PLEASE ENTER 1 FOR NEW CUSTOMER!
         PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
         PLEASE ENTER 3 TO SEARCH A CUSTOMER
         PLEASE ENTER 4 TO OPEN NEW ACCOUNT
         PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
         PLEASE ENTER 6 TO SEARCH AN ACCOUNT
         PLEASE ENTER 7 TO WITHDRAW AMOUNT
         PLEASE ENTER 8 TO EXIT !
   Please Enter Your Choice: 7
   PLEASE ENTER THE ACCOUNT NUMBER [0-9]: 202256004
   PLEASE ENTER THE ATM PIN - ONLY 3 ATTEMPTS ARE ALLOWED : 1005
   Wrong Pin ! Please enter a Valid PIN
   You are left with only 2 Attempts
   Sorry ! Account Infromation NOT Found , Please Try Again !
   PLEASE ENTER THE ATM PIN - ONLY 3 ATTEMPTS ARE ALLOWED: 1002
   Wrong Pin! Please enter a Valid PIN
   You are left with only 1 Attempts
   Sorry ! Account Infromation NOT Found , Please Try Again !
   PLEASE ENTER THE ATM PIN - ONLY 3 ATTEMPTS ARE ALLOWED : 1007
   Wrong Pin ! Please enter a Valid PIN
   You are left with only 0 Attempts
   Your Card has been Blocked , Please Visit the Branch to activate it
                                                               Ln: 348 Col: 28
```

TO EXIT

```
▶ IDLE Shell 3.10.2
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File Edit Shell Debug Options Window Help
          PLEASE ENTER 1 FOR NEW CUSTOMER!
          PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
         PLEASE ENTER 3 TO SEARCH A CUSTOMER
         PLEASE ENTER 4 TO OPEN NEW ACCOUNT
        PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
         PLEASE ENTER 6 TO SEARCH AN ACCOUNT
        PLEASE ENTER 7 TO WITHDRAW AMOUNT
         PLEASE ENTER 8 TO EXIT !
   Please Enter Your Choice: 7
   PLEASE ENTER THE ACCOUNT NUMBER [0-9]: 202256004
   PLEASE ENTER THE ATM PIN - ONLY 3 ATTEMPTS ARE ALLOWED : 1005
   Wrong Pin ! Please enter a Valid PIN
   You are left with only 2 Attempts
   Sorry ! Account Infromation NOT Found , Please Try Again !
   PLEASE ENTER THE ATM PIN - ONLY 3 ATTEMPTS ARE ALLOWED : 1002
   Wrong Pin ! Please enter a Valid PIN
   You are left with only 1 Attempts
   Sorry ! Account Infromation NOT Found , Please Try Again !
   PLEASE ENTER THE ATM PIN - ONLY 3 ATTEMPTS ARE ALLOWED: 1007
   Wrong Pin ! Please enter a Valid PIN
   You are left with only 0 Attempts
   Your Card has been Blocked , Please Visit the Branch to activate it
   ! ______ **********
          PLEASE ENTER 1 FOR NEW CUSTOMER!
         PLEASE ENTER 2 TO DISPLAY ALL CUSTOMERS
         PLEASE ENTER 3 TO SEARCH A CUSTOMER
         PLEASE ENTER 4 TO OPEN NEW ACCOUNT
        PLEASE ENTER 5 TO DISPLAY ALL ACCOUNTS
         PLEASE ENTER 6 TO SEARCH AN ACCOUNT
         PLEASE ENTER 7 TO WITHDRAW AMOUNT
        PLEASE ENTER 8 TO EXIT !
   Please Enter Your Choice: 8
                                                                   Ln: 349 Col: 0
```

DATABASE – ATM

```
Χ
MySQL 8.0 Command Line Client - Unicode
Enter password: ****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 27
Server version: 8.0.28 MySQL Community Server - GPL
Copyright (c) 2000, 2022, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
 Database
 information_schema
 mysql
 performance_schema
 sakila
 sys
 test
 world
8 rows in set (0.01 sec)
mysql> use atm
Database changed
mysql>
```

TABLE STRUCTURES

```
MySQL 8.0 Command Line Client - Unicode
                                                                                    Х
8 rows in set (0.01 sec)
mysql> use atm
Database changed
mysql> show tables;
  Tables_in_atm |
  account
customer
2 rows in set (0.02 sec)
mysql> desc account;
  Field | Type | Null | Key | Default | Extra
 CID | varchar(10) | YES | NULL
ACCOUNT_NO | int | NO | PRI | NULL
ACCOUNT_TYPE | varchar(20) | NO | NULL
 AMOUNT | int
                                 NO
                                                 NULL
                                 NO
PIN
                                                NULL
5 rows in set (0.01 sec)
mysql> desc customer;
  Field | Type | Null | Key | Default | Extra
 CID
                     | NO | PRI | NULL
           | int
| CNAME | varchar(30) | NO |
| ADDRESS | varchar(30) | NO |
| PHONE | varchar(10) | NO |
                                          NULL
                                          NULL
                                          NULL
4 rows in set (0.01 sec)
mysq1>
```

BACKEND DATA GENERATED THROUGH SOFTWARE

MySQL 8.0 Co	mmand L	ine Client - Unic	ode							_	×
customer +		 -+									
2 rows in s	set (0	0.02 sec)									
mysql> desc	acco	ount;	+-			+			_		
Field Type		į	Null	Key	Default		Extra				
CID varchar(ACCOUNT_NO int ACCOUNT_TYPE varchar(AMOUNT int PIN int			YES NO NO NO NO	PRI	NULL NULL NULL NULL NULL						
rows in s	set (0.01 sec)		,		Τ		,	7		
mysql> desc	cust	tomer;									
Field	+ Type		Null	Key	Def	ault	Ext	ra			
CID CNAME ADDRESS PHONE	RESS varchar(30)			PRI	NUL NUL	L L	+ 	- + 			
+ 4 rows in s	set (0	0.01 sec)		+	-+		+	+			
mysql> sele	ect *	from cust	tomer;								
++ CID CNAME			+ ADDRESS			PHONE					
++ 100 Tharun Kumaar U			+ Bharathi Nagar			8434567891					
++ 1 row in se	et (0.	.02 sec)			+			+			
mysql> sele	ect *	from acco	ount;								
CID	COUNT	Γ_NO ACC	COUNT_T	YPE	AMOUN	T P:	+ IN				
100 2	202256	5004 S		+-	98500	0 1	001				
+ 1 row in se	et (0.	.00 sec)		+-		+	+				
mysql>											

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