

**Industrial Training Project**  
**(BCAN-583)**

**ON**

**Banking Management System**

Session: 2019-2022



**UNDER THE GUIDANCE OF:**

**Mr. Saikat Chakraborty**

**(External Guide)**

**SUBMITTED BY: (BCA 5<sup>th</sup> Sem)**

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**ASANSOL ENGINEERING COLLEGE (AEC)**

**College in Asansol, West Bengal**

**(Affiliated to Maulana Abul Kalam Azad University of Technology)**

**(Kolkata, West Bengal)**

**January 2022**

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## **ACKNOWLEDGEMENT**

We would like to express our special thanks and gratitude to our external guide Mr. Saikat Chakraborty. We would like to thank our HOD sir Dr. Dibyendu Kumar Pal to provide us the opportunity to carry out the project. We would also like to thank our honorable principal sir Dr. P.P Bhattacharya who gave us the golden opportunity to do this wonderful project entitled “**Banking Management System**”, which also helped us in doing lots of research and we came to know about so many new things. We are really thankful to them.

We would also like to thank other faculty members of our department, our parents and group members to complete the project within time.

Thank You all for your support.

SIDDHARTHA KHAWAS (32201219075) -----

SHIVENDU SHIVAM (32201219074) -----

SUBHAM CHAKRABORTY (32201219061) -----

DIPAK KUMAR YADAV (32201219055) -----

RAHUL KUMAR (32201219012) -----

**BCA FINAL YEAR**

**SESSION:-2019-2022**

## **DECLARATION**

We hereby declare that the project entitled- “**Banking Management System**”, which is being submitted as industrial training Project of 5<sup>th</sup> semester in **Bachelor of Computer Applications (BCA)** to **Asansol Engineering College, Asansol (W.B)** is the record of our genuine work under the guidance of our external guide **Mr. Saikat Chakraborty**.

**SIDDHARTHA KHAWAS (32201219075)**

**SHIVENDU SHIVAM (32201219074)**

**SUBHAM CHAKRABORTY (32201219061)**

**DIPAK KUMAR YADAV (32201219055)**

**RAHUL KUMAR (32201219012)**

**Place:**

**Date:**

# **INDEX**

***# Brief overview of project***

***# Need for computerization***

***# Software and Hardware requirement***

***# Advantages of project***

***# Source code in python***

***# Output screen***

***# References***

# Brief Overview of project

This is a project based on bank management. The program helps us to enter, display or alter the details of different accounts in the bank.

Moreover, and most importantly the program helps us to deposit money in the account or close the account from the bank.

The program also helps us to know all the details of customers of the bank.

It includes various function programs to do the above-mentioned tasks.

Data file handling has been effectively used in the program.

Database is a collection of interrelated data to serve multiple applications, i.e., database programs create files of information. So, we see that files are worked with most inside the program itself.

DBMS The software required for management of data is called DBMS. It has three models

- . Relation model: It stores information in form of rows(cardinality) and columns(degree).
- . Hierarchical model: In this type of model, we have multiple records inside a single record.
- . network model: In this, the data is represented by collections of record and relationship is represented by associations.

CHARACTERISTICS OF DBMS:

- . It reduces the redundancy
- . Data sharing
- . Data standardization

## **#Feature scope: -**

- Creating New Accounts- The application can be used to create two different types of accounts by the customers, which are Savings Account and Current Account. It helps save the hustle for the customer to visit the bank physically and create/use these accounts.
- Depositing Money- As the world is moving towards the limited use of paper currency, depositing or transferring money from one bank to the other will become as easy as clicking a few buttons using this application.
- Account Holder List- This is a feature for the admin. The admin can view the list of all the account holders.
- Using Passwords/PIN- One of the main advantages of using Passwords/PIN to access our Bank account, is that **it increases security and privacy**. It will not allow anyone to access without our permission. So, this PIN can prevent this.

## **Software and Hardware requirement**

### **#Software Specification: -**

Operating system: Windows 11/10/8

Platform : Python IDLE 3.10.1

Database : MySQL

Languages : Python

### **#Hardware specification: -**

Processor: Dual core or above

Hard Disk: 40 GB

Ram : 1024MB

## **Advantages of project**

**In order to meet competition, avoid obsolescence, and seize opportunities. A bank must be able to:**

- . Respond rapidly to new or changing information needs.
- . Maintaining the past data to ensure the satisfaction of the customer.
- . Reduce error
- . Provide better protection
- . Make work easier
- . Reduce manual labor

## #SOURCE CODE IN PYTHON

```
import mysql.connector as a
```

```
con=a.connect(host='localhost',user="root",password="sc956374",database="BANK4")
```

```
def openacc() :
```

```
    cur=con.cursor()
```

```
    Name=input("Enter the Name:")
```

```
    Account_Number=input("Enter the Account Number:")
```

```
    Date_of_Birth=input("Enter the Date of Birth:")
```

```
    Phone_Number=input("Enter the phone number:")
```

```
    Address=input("Enter the Address:")
```

```
    Balance=int(input("Enter Opening Balance:"))
```

```
    s='insert into account values(%s,%s,%s,%s,%s,%s)'
```

```
    k='insert into amount values(%s,%s,%s)'
```

```
    s1='insert into account1 values(%s,%s,%s,%s,%s)'
```

```
    o=( Name,Account_Number,Date_of_Birth,Phone_Number,Address,Balance)
```

```
    v=(Name,Account_Number,Balance)
```

```
    o1=( Name,Account_Number,Date_of_Birth,Phone_Number,Address)
```

```
    cur.execute(s,o)
```

```
    cur.execute(k,v)
```



```
cur.execute(s1,o1)
con.commit()
print("Data Entered Successfully")
main()
```

```
def depoAmo():
```

```
    am=int(input("Enter Amount:"))
    Account_Number=input("Enter Account No:")
    a="select Balance from amount where Account_Number=%s"
    f1=(Account_Number,)
    c=con.cursor()
    c.execute(a,f1)
    myresult=c.fetchone()
    tam=myresult[0]+am
    sl="update amount set Balance=%s where Account_Number=%s"
    d=(tam,Account_Number)
    c.execute(sl,d)
    con.commit()
    print("Successfully deposited")
    main()
```

```
def witham():
```

```
    am=int(input("Enter Amount:"))
    Account_Number=input("Enter Account No:")
```

```
a="select Balance from amount where Account_Number=%s"
data=(Account_Number,)
c=con.cursor()
c.execute(a,data)
myresult=c.fetchone()
tam=myresult[0]-am
sl="update amount set Balance=%s where Account_Number=%s"
d=(tam,Account_Number)
c.execute(sl,d)
con.commit()
print("Successfully withdrawn")
main()
```

```
def balance():
```

```
    Account_Number=input("Enter Account Number:")
    a="select Balance from amount where Account_Number=%s"
    data=(Account_Number,)
    c=con.cursor()
    c.execute(a,data)
    myresult=c.fetchone()
    print("Balance for Account Number:",Account_Number,"is",myresult[0])
    main()
```

```
def dispacc():
```

```

Account_Number=input("Enter Account Number:")
a="select * from account1 where Account_Number=%s"
data=(Account_Number,)
c=con.cursor()
c.execute(a,data)
myresult=c.fetchone()
for i in myresult:
    print(i,end=" ")

main()

def closeac():
    Account_Number=input("Enter Account Number:")
    sql1="delete from account where Account_Number=%s"
    sql2="delete from amount where Account_Number=%s"
    sql3="delete from account1 where Account_Number=%s"
    data=(Account_Number,)
    c=con.cursor()
    c.execute(sql1,data)
    c.execute(sql2,data)
    c.execute(sql3,data)
    con.commit()
    print("Successfully Closed")
    main()

```

```
def main():  
    print("""  
    1.OPENING NEW ACCOUNT  
    2.DEPOSIT AMOUNT  
    3.WITHDRAW AMMOUNT  
    4.BALANCE ENQUIRY  
    5.DISPLAY THE CUSTOMER DETAILS  
    6.CLOSE AN ACCOUNT  
    """)  
    choice=input("Enter Task Number:")  
    if(choice == '1'):  
        openacc()  
    elif(choice == '2'):  
        depoAmo()  
    elif (choice == '3'):  
        witham()  
    elif(choice == '4'):  
        balance()  
    elif(choice == '5'):  
        dispacc()  
    elif(choice == '6'):  
        closeac()  
  
    else:
```

```
print("Wrong choice. ....")
```

```
main()
```

```
main()
```

## **#SOURCE CODE IN MYSQL**

### **Account table:**

```
create table account (Name varchar(50),Account_Number  
varchar(20),Date_of_Birth varchar(10),Phone_Number varchar(10),Address  
varchar(100),Balance int);
```

### **Account1 table:**

```
create table account1 (Name varchar(50),Account_Number  
varchar(20),Date_of_Birth varchar(10),Phone_Number varchar(10),Address  
varchar(100));
```

### **Amount table:**

```
create table amount (Name varchar(50),Account_Number varchar(20),Balance  
int);
```

### **Unique command:**

```
alter table account modify Account_Number varchar(20) UNIQUE;
```

## #OUTPUT SCREEN: -



```
*IDLE Shell 3.10.1*
File Edit Shell Debug Options Window Help
Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 2021, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\SUBHAM CHAKRABORTY\OneDrive\Desktop\F1\test1.py =====
1.OPENING NEW ACCOUNT
2.DEPOSIT AMOUNT
3.WITHDRAW AMMOUNT
4.BALANCE ENQUIRY
5.DISPLAY THE CUSTOMER DETAILS
6.CLOSE AN ACCOUNT

Enter Task Number:
```

## ***#Account table: -***

```
mysql> SELECT * FROM account;
```

Name	Account_Number	Date_of_Birth	Phone_Number	Address	Balance
SIDDHARTHA KHAWAS	32201219075	22/02/2002	8167007322	ASANSOL	10000
SUBHAM CHAKRABORTY	32201219061	11/10/2000	9563742370	ASANSOL	20000
SHIVENDU SHIVAM	32201219074	10/01/2003	9113134535	BIHAR	30000
DIPAK KUMAR YADAV	32201219055	05/05/1999	7029295756	BARAKAR	40000
RAHUL KUMAR	32201219012	10/12/1999	9546661227	BOKARO	50000

5 rows in set (0.00 sec)

## ***#Amount table: -***

```
mysql> SELECT * FROM amount;
```

Name	Account_Number	Balance
SIDDHARTHA KHAWAS	32201219075	10000
SUBHAM CHAKRABORTY	32201219061	20000
SHIVENDU SHIVAM	32201219074	30000
DIPAK KUMAR YADAV	32201219055	40000
RAHUL KUMAR	32201219012	50000

5 rows in set (0.00 sec)

## ***#Account1 table: -***

```
mysql> SELECT * FROM account1;
```

Name	Account_Number	Date_of_Birth	Phone_Number	Address
SIDDHARTHA KHAWAS	32201219075	22/02/2002	8167007322	ASANSOL
SUBHAM CHAKRABORTY	32201219061	11/10/2000	9563742370	ASANSOL
SHIVENDU SHIVAM	32201219074	10/01/2003	9113134535	BIHAR
DIPAK KUMAR YADAV	32201219055	05/05/1999	7029295756	BARAKAR
RAHUL KUMAR	32201219012	10/12/1999	9546661227	BOKARO

```
5 rows in set (0.00 sec)
```



## #Opening new account process: -



```
*IDLE Shell 3.10.1*
File Edit Shell Debug Options Window Help
Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 2021, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\SUBHAM CHAKRABORTY\OneDrive\Desktop\F1\test1.py =====
1.OPENING NEW ACCOUNT
2.DEPOSIT AMOUNT
3.WITHDRAW AMMOUNT
4.BALANCE ENQUIRY
5.DISPLAY THE CUSTOMER DETAILS
6.CLOSE AN ACCOUNT

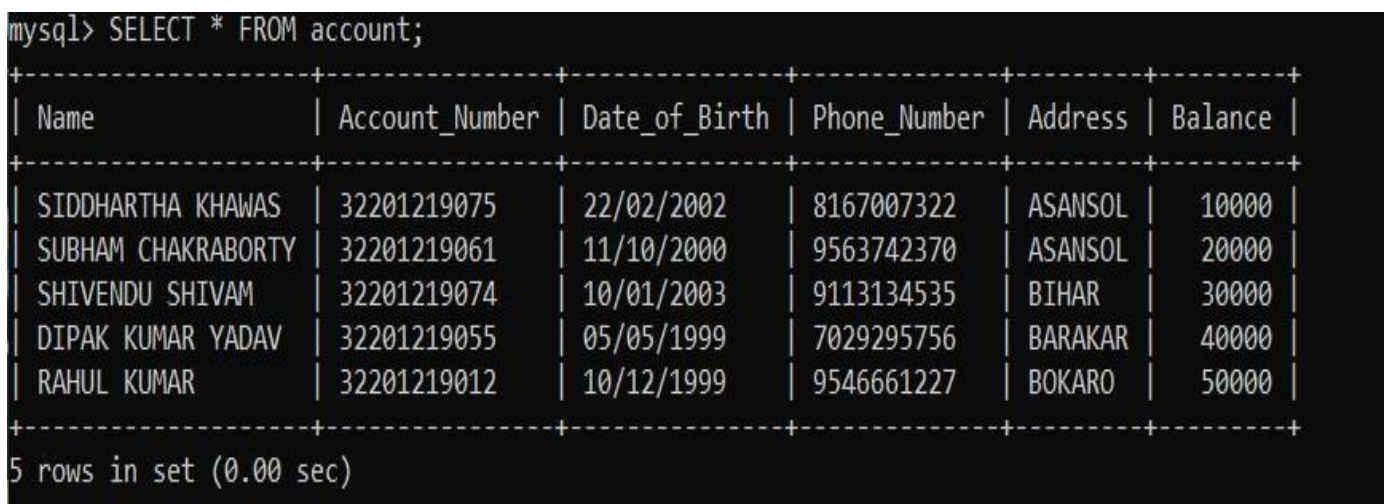
Enter Task Number:1
Enter the Name:SIDDHARTHA KHAWAS
Enter the Account Number:32201219075
Enter the Date of Birth:22/02/2002
Enter the phone number:8167007322
Enter the Address:ASANSOL
Enter Opening Balance:10000
Data Entered Successfully

1.OPENING NEW ACCOUNT
2.DEPOSIT AMOUNT
3.WITHDRAW AMMOUNT
4.BALANCE ENQUIRY
5.DISPLAY THE CUSTOMER DETAILS
6.CLOSE AN ACCOUNT

Enter Task Number:
```

Ln: 29 Col: 18

## #View account table

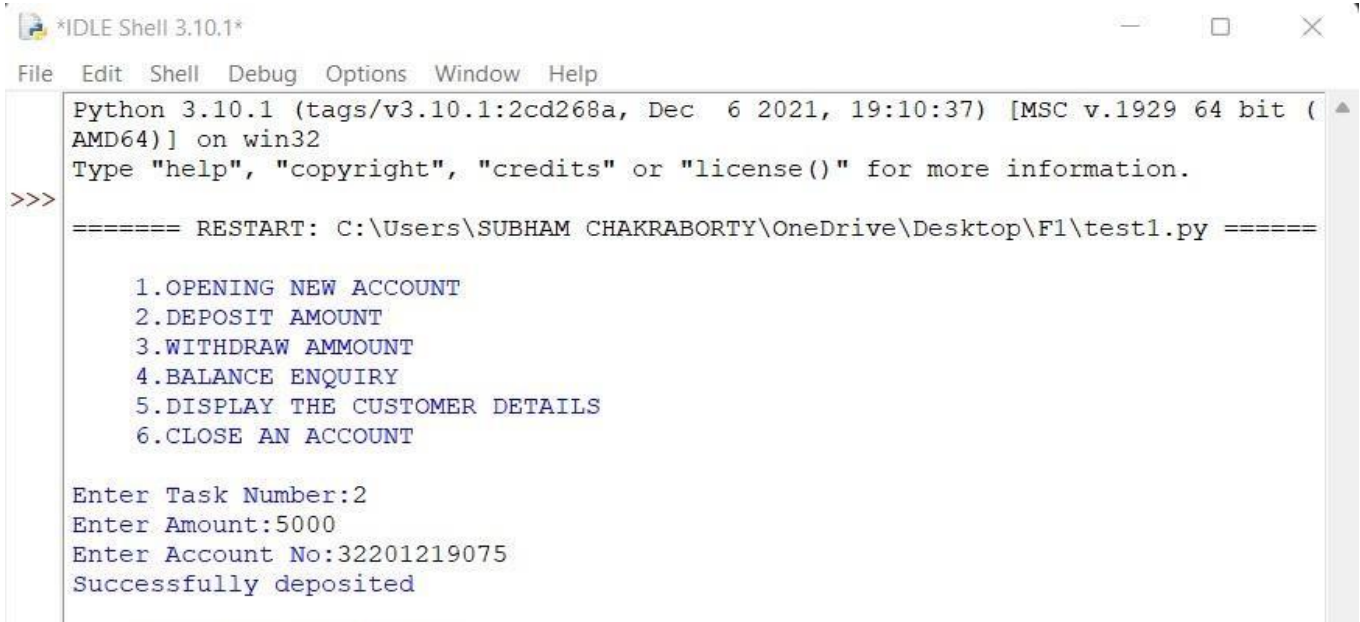


```
mysql> SELECT * FROM account;
```

Name	Account_Number	Date_of_Birth	Phone_Number	Address	Balance
SIDDHARTHA KHAWAS	32201219075	22/02/2002	8167007322	ASANSOL	10000
SUBHAM CHAKRABORTY	32201219061	11/10/2000	9563742370	ASANSOL	20000
SHIVENDU SHIVAM	32201219074	10/01/2003	9113134535	BIHAR	30000
DIPAK KUMAR YADAV	32201219055	05/05/1999	7029295756	BARAKAR	40000
RAHUL KUMAR	32201219012	10/12/1999	9546661227	BOKARO	50000

5 rows in set (0.00 sec)

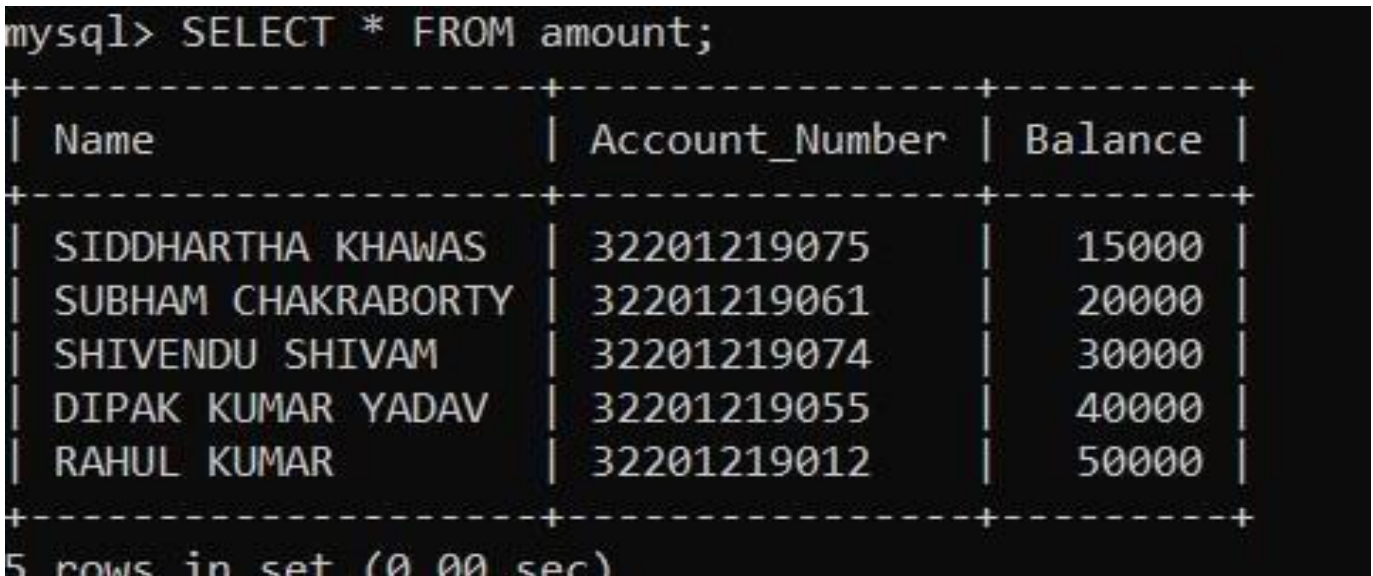
## #Deposit process: -



```
*IDLE Shell 3.10.1*
File Edit Shell Debug Options Window Help
Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 2021, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\SUBHAM CHAKRABORTY\OneDrive\Desktop\F1\test1.py =====
1.OPENING NEW ACCOUNT
2.DEPOSIT AMOUNT
3.WITHDRAW AMMOUNT
4.BALANCE ENQUIRY
5.DISPLAY THE CUSTOMER DETAILS
6.CLOSE AN ACCOUNT

Enter Task Number:2
Enter Amount:5000
Enter Account No:32201219075
Successfully deposited
```

## #View amount table



```
mysql> SELECT * FROM amount;
+-----+-----+-----+
| Name                | Account_Number | Balance |
+-----+-----+-----+
| SIDDHARTHA KHAWAS   | 32201219075    | 15000   |
| SUBHAM CHAKRABORTY  | 32201219061    | 20000   |
| SHIVENDU SHIVAM     | 32201219074    | 30000   |
| DIPAK KUMAR YADAV   | 32201219055    | 40000   |
| RAHUL KUMAR         | 32201219012    | 50000   |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

### **#Withdraw process: -**

- 1.OPENING NEW ACCOUNT
- 2.DEPOSIT AMOUNT
- 3.WITHDRAW AMMOUNT
- 4.BALANCE ENQUIRY
- 5.DISPLAY THE CUSTOMER DETAILS
- 6.CLOSE AN ACCOUNT

Enter Task Number:3  
Enter Amount:6000  
Enter Account No:32201219061  
Successfully withdrawn

### **#View Amount table : -**

```
mysql> SELECT * FROM amount;
```

Name	Account_Number	Balance
SIDDHARTHA KHAWAS	32201219075	15000
SUBHAM CHAKRABORTY	32201219061	14000
SHIVENDU SHIVAM	32201219074	30000
DIPAK KUMAR YADAV	32201219055	40000
RAHUL KUMAR	32201219012	50000

5 rows in set (0.00 sec)

### ***#Balance enquiry process: -***

- 1.OPENING NEW ACCOUNT
- 2.DEPOSIT AMOUNT
- 3.WITHDRAW AMMOUNT
- 4.BALANCE ENQUIRY
- 5.DISPLAY THE CUSTOMER DETAILS
- 6.CLOSE AN ACCOUNT

Enter Task Number:4

Enter Account Number:2201219074

Balance for Account Number: 2201219074 is 30000

### ***# View amount table : -***

```
mysql> SELECT * FROM amount;
```

Name	Account_Number	Balance
SIDDHARTHA KHAWAS	32201219075	15000
SUBHAM CHAKRABORTY	32201219061	14000
SHIVENDU SHIVAM	32201219074	30000
DIPAK KUMAR YADAV	32201219055	40000
RAHUL KUMAR	32201219012	50000

```
5 rows in set (0.00 sec)
```



## #Customer details process: -

- 1.OPENING NEW ACCOUNT
- 2.DEPOSIT AMOUNT
- 3.WITHDRAW AMMOUNT
- 4.BALANCE ENQUIRY
- 5.DISPLAY THE CUSTOMER DETAILS
- 6.CLOSE AN ACCOUNT

Enter Task Number:5

Enter Account Number:32201219055

DIPAK KUMAR YADAV 32201219055 05/05/1999 7029295756 BARAKAR

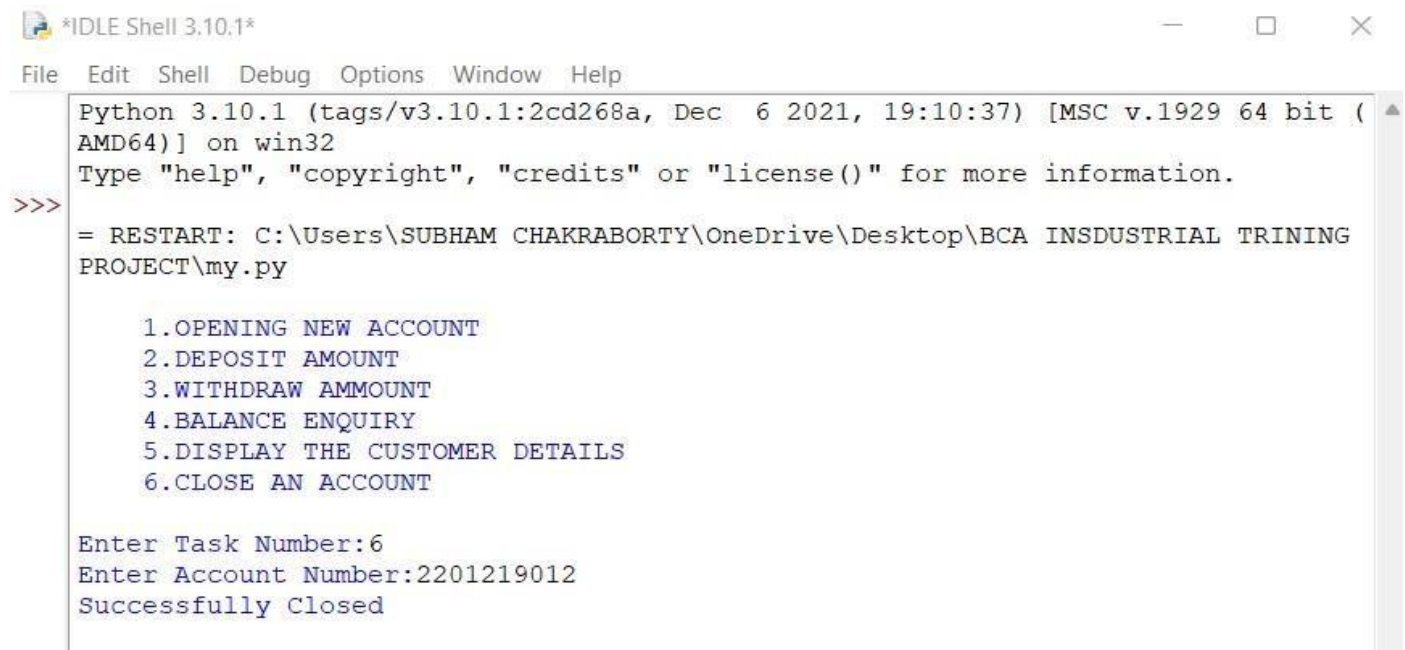
## #View account table: -

```
mysql> SELECT * FROM account1;
```

Name	Account_Number	Date_of_Birth	Phone_Number	Address
SIDDHARTHA KHAWAS	32201219075	22/02/2002	8167007322	ASANSOL
SUBHAM CHAKRABORTY	32201219061	11/10/2000	9563742370	ASANSOL
SHIVENDU SHIVAM	32201219074	10/01/2003	9113134535	BIHAR
DIPAK KUMAR YADAV	32201219055	05/05/1999	7029295756	BARAKAR
RAHUL KUMAR	32201219012	10/12/1999	9546661227	BOKARO

5 rows in set (0.00 sec)

## ***#Account close process: -***



```
*IDLE Shell 3.10.1*
File Edit Shell Debug Options Window Help
Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 2021, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> = RESTART: C:\Users\SUBHAM CHAKRABORTY\OneDrive\Desktop\BCA INSDUSTRIAL TRINING PROJECT\my.py

      1.OPENING NEW ACCOUNT
      2.DEPOSIT AMOUNT
      3.WITHDRAW AMMOUNT
      4.BALANCE ENQUIRY
      5.DISPLAY THE CUSTOMER DETAILS
      6.CLOSE AN ACCOUNT

Enter Task Number:6
Enter Account Number:2201219012
Successfully Closed
```

## ***#View account table, amount table, account1 table: -***

```
mysql> select * from account;
```

Name	Account_Number	Date_of_Birth	Phone_Number	Address	Balance
SIDDHARTHA KHAWAS	32201219075	22/02/2002	8167007322	ASANSOL	10000
SUBHAM CHAKRABORTY	32201219061	11/10/2000	9563742370	ASANSOL	20000
SHIVENDU SHIVAM	32201219074	10/01/2003	9113134535	BIHAR	30000
DIPAK KUMAR YADAV	32201219055	05/05/1999	7029295756	BARAKAR	40000

4 rows in set (0.00 sec)

```
mysql> select * from account1;
```

Name	Account_Number	Date_of_Birth	Phone_Number	Address
SIDDHARTHA KHAWAS	32201219075	22/02/2002	8167007322	ASANSOL
SUBHAM CHAKRABORTY	32201219061	11/10/2000	9563742370	ASANSOL
SHIVENDU SHIVAM	32201219074	10/01/2003	9113134535	BIHAR
DIPAK KUMAR YADAV	32201219055	05/05/1999	7029295756	BARAKAR

4 rows in set (0.00 sec)

```
mysql> select * from amount;
```

Name	Account_Number	Balance
SIDDHARTHA KHAWAS	32201219075	15000
SUBHAM CHAKRABORTY	32201219061	14000
SHIVENDU SHIVAM	32201219074	30000
DIPAK KUMAR YADAV	32201219055	40000

4 rows in set (0.00 sec)

## # Limitation: -

- ❑ It cannot perform all the required function as bank required. It's simply a record of account of customer.

## #References: -

- ❑ <http://www.w3schools.com> (Website)
- ❑ <http://www.geeksforgeeks.com> (Website)