

ACKNOWLEDGEMENT

I understood this Project work, as the part of my XII Computer Science course. I had tried to apply my best of knowledge and experience, gained during the study and class work experience. However, developing software system is generally a quite complex and time-consuming process. It requires a systematic study, insight vision and professional approach during the design and development. Moreover, the developer always feels the need, the help and good wishes of the people near you, who have considerable experience and idea.

I would like to extend my sincere thanks and gratitude to my teacher **MS. SARITA CHAUHAN**. I am very thankful to our Principal **MS. SEEMA KASUMRA** for giving valuable time and moral support to develop this software.

AMEYA ATREYA

CODING OF PROGRAM

CREATING ACCOUNT

```
#Importing modules
```

```
import csv
```

```
import random
```

```
import datetime
```

```
#Field Names
```

```
Bank_fields = ["Account No.", "Account Holder", "Account type", "Current Balance", "Contact No.", "Email", "Address", "Account Opening Date", "Account Status", "Pin"]
```

```
#Name of the csv file
```

```
Bank_database = "bankrecord.csv"
```

```
#Defining functions
```

```
def add_account():
```

```
    print("\n-----")
```

```
    print("    Open Bank Account  ")
```

```
    print("-----")
```

```
    global Bank_fields
```

```
    global Bank_database
```

```
with open(Bank_database, 'w') as f:
```

```
    Customer_data = []
```

```
    b_w = csv.writer(f)
```

```
    b_w.writerow(Bank_fields)
```

```
    ch = "y"
```

```
    t_date = datetime.datetime.now()
```

```
    while ch == "y":
```

```
        acc_no = random.randrange(100000, 999999)
```

```
        print("The Account Number :", acc_no)
```

```
        hol = input("Enter Account Holder Name: ").upper()
```

```
        acc_typ = input("Enter Account type: ").upper()
```

```
        bal = float(input("Enter Total Balance: \u20B9"))
```

```
        con_no = int(input("Enter contact number: +91 "))
```

```
        email = input("Enter Email Address: ")
```

```
        add = input("Enter Address: ").upper()
```

```
        op_date = t_date
```

```
        op_date1 = print("Account Opening Date/Time(YYYY-MM-DDHH:MM:SS):", t_date)
```

```

acc_sat = "ACTIVE"
pin = random.randrange(1000,9999)
pn = print("Pin number: ",pin)
L = [acc_no,hol,acc_typ,float(bal),con_no,email,add,op_date,acc_sat,pin]
Customer_data.append(L)
Customer_data.sort()
print("Customer Data Added Succesfully")
ch = input("Do you want to add more record Y/N: ").lower()
b_w.writerows(Customer_data)

```

SEARCHING RECORD

```

def search():
    print("\n-----")
    print("  Customer Enquiry  ")
    print("-----")

    Name = input("Enter Customer Name You Want To Search: ").upper()
    with open(Bank_database,'r') as f:
        b_r = csv.reader(f)
        count = 0
        for i in b_r:
            if len(i) > 1:
                if str(i[1]) == Name:
                    print(i[0:9])
                    count += 1
        if count == 0:
            print('No Customer Data Found!')
            input("\nPress any key to continue")

```

DISPLAY ALL RECORDS

```
def display():
    print("\n-----")
    print("    Bank Data    ")
    print("-----")

    with open(Bank_database,'r') as f:
        b_r = csv.reader(f)
        for i in b_r:
            print(i)
```

BALANCE INQUIRY

```
def bal_en():
    print("\n-----")
    print("    Balance Enquiry    ")
    print("-----")

    name = input("Enter Customer Name for Balance Enquiry: ").upper()
    with open(Bank_database,'r') as f:
        b_r = csv.reader(f)
        count = 0
        l=[]
        for i in b_r:
            next(b_r)
            if len(i) > 1:
                if i[1] == name:
                    print("Bank Balance: \u20B9",i[3])

                    count+=1
        if count==0:
            print('No Customer Data Found!')
            input('\nPress any key to continue')
    return
```

DEPOISTING MONEY

```
def credit():
    print("\n-----")
    print("      Deposit      ")
    print("-----")

    name = input("Enter Customer Name for deposit: ").upper()
    amd = float(input("Enter amount to be credited : \u20B9"))
    with open(Bank_database,'r+') as f:
        l=[]
        b_r = csv.reader(f)
        count = 0
        for i in b_r:
            next(b_r)
            if len(i) > 1:
                if i[1] == name:
                    i[3] = float(i[3])+amd
                    print('\u20b9',amd,'has been succesfully credited to your account')
                    print("Current Balance: \u20B9",i[3])
                    count+=1
                    l.append(i)
                else:
                    l.append(i)
        update(l)
        if count==0:
            print('No Customer Data Found!')
            input('\nPress any key to continue')
    return
```

UPDATE

```
def update(a):
    with open(Bank_database,'w') as f:
        b_w = csv.writer(f)
        b_w.writerows(a)
```

WITHDRAWING MONEY

```
def debit():
    print("\n-----")
    print("      Withdraw      ")
    print("-----")

    name = input("Enter Customer Name for withdrawal: ").upper()
    amw = float(input("Enter amount to be debited : \u20B9"))
    with open(Bank_database,'r+') as f:
        l=[]
        b_r = csv.reader(f)
        count = 0
        for i in b_r:
            if len(i) > 1:
                if i[1] == name:
                    i[3] = float(i[3])-amw
                    print('\u20b9',amw,'has been succesfully debited from your account')
                    print("Current Balance: \u20B9", i[3])
                    count+=1
                    l.append(i)
                else:
                    l.append(i)
        update(l)
        if count==0:
            print('No Customer Data Found!')
            input('\nPress any key to continue')
    return
```

UPDATE CONTACT NUMBER

```
def up_con():
    print("\n-----")
    print("      Contact Number Updation      ")
    print("-----")

    name = input("Enter Customer Name for contact Number Updation : ").upper()
    cn = int(input("Enter contact number: "))
    with open(Bank_database,'r+') as f:
        l=[]
        b_r = csv.reader(f)
        count = 0
        for i in b_r:
            if len(i) > 1:
                if i[1] == name:
                    i[4] = cn
                    print("Contact Number has been successfully updaated")
                    count+=1
                    l.append(i)
                else:
                    l.append(i)
        update(l)
    if count==0:
        print('No Customer Data Found!')
        input("\nPress any key to continue")
    return
```

UPDATE EMAIL ADDERESS

```
def up_email():
    print("\n-----")
    print("      Email Address Updation      ")
    print("-----")

    name = input("Enter Customer Name for Email Updation : ").upper()
    em = input("Enter Email Address: ")
    with open(Bank_database,'r+') as f:
        l=[]
        b_r = csv.reader(f)
        count = 0
        for i in b_r:
            if len(i) > 1:
                if i[1] == name:
                    i[5] = em
                    print("Email Address has been successfully updaated")
                    count+=1
                    l.append(i)
                else:
                    l.append(i)
        update(l)
    if count==0:
        print('No Customer Data Found!')
        input("\nPress any key to continue")
    return
```


UPDATE RESIDENTIAL ADDERESS

```
def up_add():
    print("\n-----")
    print("      Address Updation      ")
    print("-----")

    name = input("Enter Customer Name for Address Updation : ").upper()
    add = input("Enter Residential Address: ")
    with open(Bank_database,'r+') as f:
        l=[]
        b_r = csv.reader(f)
        count = 0
        for i in b_r:
            if len(i) > 1:
                if i[1] == name:
                    i[6] = add
                    print("Address has been successfully updaated")
                    count+=1
                    l.append(i)
        update(l)
    if count==0:
        print('No Customer Data Found!')
        input('\nPress any key to continue')
    return
```

DELETING ACCOUNT

```
def deln():
    print("\n-----")
    print("      Account Deletion      ")
    print("-----")

    name = input("Enter Customer Name for Account Deletion : ").upper()
    with open(Bank_database,'r+') as f:
        l=[]
        b_r = csv.reader(f)
        count = 0
        for i in b_r:
            if len(i) > 1:
                if i[1] != name:
                    count+=1
                    l.append(i)
        update(l)
    if count==0:
        print('No Customer Data Found!')
        input("\nPress any key to continue'")
    return
```

MAIN MENU

#Creating Admin and Customer Window

while True:

print("\n1.Admin Login")

print("2.Customer Login\n")

ch = input("Enter your choice: ")

if (ch == "1"):

print("\nEnter User-id and Password")

us = "admin@123"

pss = "abg"

us_id = input("User-ID: ")

pas = input("Password: ")

if (us==us_id) and (pss==pss):

while True:

print("\n ----- Welcome Admin ----- ")

print("\n1. Add Bank account to database")

print("2. Search Customer")

print("3. Display all records")

print("4. Update Contact Number")

print("5. Update Email Address")

print("6. Update Residential Address")

print("7. Delete Customer Record")

print("8. Logout")

print("\n")

ch1 = int(input("Enter your choice: "))

if (ch1==1):

add_account()

elif (ch1==2):

search()

elif (ch1==3):

display()

elif (ch1==4):

up_con()

elif (ch1==5):

up_email()

elif (ch1==6):

up_add()

elif (ch1==7):

deln()

elif (ch1==8):

print("You have successfully logged out")

```

        break
    else:
        print("You have chosen invalid option")
else:
    print("Invalid credential")

elif (ch=="2"):
    while True:
        print("\n1. Balance Enquiry")
        print("2. Credit")
        print("3. Debit")
        print("4. Update Contact Number")
        print("5. Update Email Address")
        print("6. Update Residential Address")
        print("7. Search Details")
        print("8. Exit")
        print("\n")
        ch2 = int(input("Enter your choice: "))
        if (ch2==1):
            bal_en()
        elif (ch2==2):
            credit()
        elif (ch2==3):
            debit()
        elif (ch2==4):
            up_con()
        elif (ch2==5):
            up_email()
        elif (ch2==6):
            up_add()
        elif (ch2==7):
            search()
        elif (ch2==8):
            break
        else:
            print("Invalid Option")
else:
    print(" Invalid Option ")

```

OUTPUT

TOPIC : BANK MANGEMENT SYSTEM
MADE BY : AMEYA ATREYA
AND
GYAN DUBEY
SUBMITTED TO : MS. SARITA CHAUHAN

----- WELCOME *-----*

- 1.Admin Login
- 2.Customer Login

Enter your choice: 1

Enter User-id and Password

User-ID: admin@123

Password: abg

----- Welcome Admin -----

- 1. Add Bank account to database
- 2. Search Customer
- 3. Display all records
- 4. Update Contact Number
- 5. Update Email Address
- 6. Update Residential Address
- 7. Delete Customer Record
- 8. Logout

Enter your choice: 1

Open Bank Account

The Account Number : 669741

Enter Account Holder Name: AMEYA ATREya

Enter Account type: save

Enter Total Balance: ₹50000

Enter contact number: +91 8448835989

Enter Email Address: ameya06@gmail.com

Enter Address: Noida

Account Opening Date/Time(YYYY-MM-DD HH:MM:SS): 2022-11-22 20:52:08.343950

Pin number: 6676

Customer Data Added Succesfully

Do you want to add more record Y/N: |

Enter your choice: 2

Customer Enquiry

Enter Customer Name You Want To Search: ameya atreya

['669741', 'AMEYA ATREYA', 'SAVE', '50000.0', '8448835989', 'ameya06@gmail.com', 'NOIDA', '2022-11-22 20:52:08.343950', 'ACTIVE']

Enter your choice: 3

Bank Data

['Account No.', 'Account Holder', 'Account type', 'Current Balance', 'Contact No.', 'Email', 'Address', 'Account Opening Date', 'Account Status', 'Pin']
[]
['528011', 'ANOS VECRON', 'SAVE', '5000000789.0', '8787429567', 'Dihalde', 'DEMOWORLD', '2022-11-22 20:52:08.343950', 'ACTIVE', '9420']
[]
['529037', 'ANIKA ATREYA', 'SAVE', '5852878.0', '9117745936', 'anika09@gmail.com', 'NOIDA', '2022-11-22 20:52:08.343950', 'ACTIVE', '6185']
[]
['669741', 'AMEYA ATREYA', 'SAVE', '50000.0', '8448835989', 'ameya06@gmail.com', 'NOIDA', '2022-11-22 20:52:08.343950', 'ACTIVE', '6676']
[]

Enter your choice: 4

Contact Number Updation

Enter Customer Name for contact Number Updation : Anos vecron

Enter contact number: 9525333300

Contact Number has been successfully updaated

Enter your choice: 5

Email Address Updation

Enter Customer Name for Email Updation : Anika atreya

Enter Email Address: anikaatreya05@gmail.com

Email Address has been successfully updaated

Enter your choice: 6

Address Updation

Enter Customer Name for Address Updation : Ameya Atreya
Enter Residential Address: Gokuldham
Address has been successfully updaated

Enter your choice: 8

You have successfully logged out

- 1.Admin Login
- 2.Customer Login

Enter your choice: 2

1. Balance Enquiry
2. Credit
3. Debit
4. Update Contact Number
5. Update Email Address
6. Update Residential Address
7. Search Details
8. Exit

Enter your choice: 1

Balance Enquiry

Enter Customer Name for Balance Enquiry: Ameya atreya
Bank Balance: ₹ 500000.0

Enter your choice: 2

Deposit

Enter Customer Name for deposit: Ameya atreya
Enter amount to be credited : ₹50000
₹ 50000.0 has been succesfully credited to your account
Current Balance: ₹ 550000.0

Enter your choice: 3

Withdraw

Enter Customer Name for withdrawal: Ameya atreya

Enter amount to be debited : ₹5854

₹ 5854.0 has been succesfully debited from your account

Current Balance: ₹ 544146.0

BIBLIOGRAPHY

Books

- Computer Science with Python – Preeti Arora