# INNOVATIVE PROJECT

# TOPIC :- BANK MANAGEMENT SYSTEM

By:-

19BCE139 - Mitul Nakrani

### Packages required for program execution:

**Note:** All the packages to be installed in terminal (command prompt)

- Matplotlib pip install matplotlib
- Pandas pip install pandas
- Openpyxl pip install openpyxl
- Tkinter pip install tkinter
- Bcrypt pip install bcrypt

#### File to be executed:

**Note:** Python file to be executed in terminal (command prompt)

File name: BankApp.py – python3 BankApp.py <u>or</u> python BankApp.py

## **Supporting Files:**

Note: To be saved in the same directory as BankApp.py

#### File names:

- BankFunction.py
- MNMBankDatabase.xlsx

#### Salient Features:

- Dynamic User Interface
- Secure account Login (use of password encryption)
- Use of excel and csv files for data management.
- Use of Tkinter GUI modelling
- Graphical representation of transactions using matplotlib package

## **Technical Features:**

- Account creation and login
- Deposit and withdrawal of funds along with transaction notes.
- View Passbook
- View personal details
- User can also take loan, pay installments and also view loan details
- User can also create a FD ,view details and break their FDs

#### Process of execution:

1. First create an account.



2. Add your personal details and password.



3. After account creation a message will pop up showing your account number. Note the account number to login.



4. After entering login details, Account home page will be seen from where you can access the technical features.



5. Deposit:



6. Withdraw:



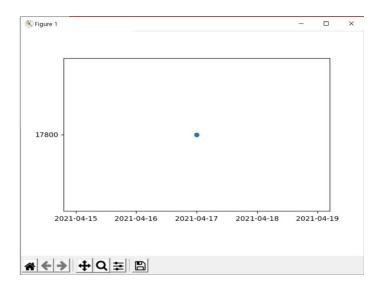
7. Personal Details:



8. Passbook:



9. View Graph: (Graph will display the balance at the end of each day)



10.Loans:



11. Take a Loan: ( After clicking on confirm you will get a unique Loan no. )



12. Payback Loan: (Paying loan installments)



13. View Loan details: (All your Loan details)



14. Fixed Deposits:



15. Create FD: ( After clicking on confirm you will get a unique FD no. )



## 16. View FD Details:



## 17.Break FD:



- 18.On clicking enter in every section a suitable message will pop providing you information.
- 19. All Account data will be stored in MNMBankDatabase.xlsx so the admin can access the user database.