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# INTRODUCTION

A bank is a commercial or state institution that provides financial services, including issuing money in form of coins, notes or debit cards receiving deposit of money, lending money and processing transactions. In history the primary purpose of a bank was to provide liquidity to the trading companies. Banks advance funds to allow business to purchase inventory and collected those funds back with interest. When the goods are sold for centuries the banking industry only dealt with the business not customers. In personal banking system customers deposit their money in savings account or current account and he can withdraw that money with added some interest amount customers can send money to any other customer accounts, receive money from other accounts. These activities are being done offline from centuries but due to digitalisation of world these activities can be done online easily securely and efficiently from anywhere anytime.

## Objective of Project:-

The project that I have under taken aims to develop a banking system that is clean user friendly and multi-functional.

Development of this application includes and number of fields such that user feels comfortable and the system appears as dynamic to him. The project Bank management system includes the following functionalities:-

- Transactions can be done with minimum user events
- All transactional details and accounts are stored in database created in MYSQL
- Customers can view their own account balance and account profile
- Customers can register themselves online and can edit their profile
- This project also promotes online transactions by giving some bonus amount on registering online hence it promotes digital India initiative Government of India

## **A Brief Introduction to Python**

Python is widely used general purpose high level programming language. It was initially designed by Guido Van Rossum in 1991 and developed by python software foundation. It was needed for emphasis on code readability and it allows programmers to express concepts in fewer lines of code.

- Python Laid its foundation in late 1980s.
- Implementation of python was started in December 1989 Guido Van Rossum at CWI in Netherland.
- In 1994 python one was released with the new features like filter and reduce.
- Python 2.0 Added the new features like lists comprehensions, garbage collection system.
- On December 3rd 2008 python 3 was also released it was designed to rectify fundamental flaw of the language.
- ABC programming language is said to be predecessor of the by the language which was capable of exception handling and interfacing with Amoeba operating system.
- python is influenced by the following programming languages ABC language and Modula-3

## **A Brief Introduction of MYSQL**

MYSQL is a relational database management system (RDBMS) developed by Oracle that is based on structured query language (SQL). A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or a place to hold the vast amounts of information in a corporate network.

### **MYSQL Features:-**

- MYSQL is a Relational database management system
- It is easy to use you have to get only the basic knowledge of SQL you can build and interact with my SQL with only a few simple SQL queries
- It is secure as MYSQL consists of solid data security layer that protect sensitive data from intruders password are encrypted in MYSQL.
- It is free to use and you can download it from the my SQL official website
- It can handle almost any amount of data up to as much as 50 million rows or more the default file size limit is about 4GB however you can increase this number to a theoretical limit of 8Tb of data.
- It is compatible on many operating systems like Windows, Linux, IOS etc.
- Performance in MYSQL is faster more reliable and cheaper because of its Unix storage engine architecture large number of embedded applications which makes my skill very flexible high productivity by SQL used uses triggers store procedures and views which allow a developer to give a higher productivity.

## **System Requirements**

This application Bank management system being a small, portable and a user-friendly application of computer system should have the combination of the following hardware and software requirements:-

### **1.Hardware Requirements:-**

- Intel i3 processor or above
- minimum 2 GB ram
- at least 500 GB hard disc drive

### **2.Software Requirements:-**

- windows 7 or above
- python version 3 and above
- my SQL version 2 and above

## **Installation Procedure**

### **Python Installation:-**

Open python.org Website,

Four Python 3.11 installers are available for download - two each for the 32-bit and 64-bit versions of the interpreter. The web installer is a small initial download, and it will automatically download the required components as necessary. The offline installer includes the components necessary for a default installation and only requires an internet connection for optional features. Click on Install Now. Python will be installed.

### **MYSQL Installation:-**

Step 1: Go to the official website of MySQL and download the community server edition software. Here, you will see the option to choose the Operating System, such as Windows.

Step 2: Next, there are two options available to download the setup. Choose the version number for the MySQL community server, which you want. If you have good internet connectivity, then choose the MySQL-installer-web-community. Otherwise, choose the other one.

\*Database Used:- abcbank

\*Tables Used:-

```
mysql> show tables;
+-----+
| Tables_in_abcbank |
+-----+
| cd                  |
| employee            |
| fds                 |
| trans               |
+-----+
4 rows in set (0.13 sec)
```

\*Structure of Tables:-

```
mysql> desc cd;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Customer_ID    | varchar(12)   | NO   | PRI | NULL    |       |
| Name           | varchar(256)  | NO   |     | NULL    |       |
| Gender         | varchar(2)    | NO   |     | NULL    |       |
| Account_Number | bigint        | NO   |     | NULL    |       |
| Account_Type   | varchar(26)   | NO   |     | NULL    |       |
| Pin            | int           | NO   |     | NULL    |       |
| Balance        | decimal(16,2) | NO   |     | 0.00    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.04 sec)
```



```
mysql> desc fds;
```

Field	Type	Null	Key	Default	Extra
Customer_ID	varchar(12)	NO	PRI	NULL	
FD_Number	bigint	NO		NULL	
Start_Date	date	NO		NULL	
Principle_Amount	int	NO		NULL	
Time_Period	varchar(16)	NO		NULL	
End_Date	date	NO		NULL	
ROI	float	NO		NULL	
Maturity_Amount	float	NO		NULL	

8 rows in set (0.01 sec)

```
mysql> desc trans;
```

Field	Type	Null	Key	Default	Extra
Customer_ID	varchar(12)	NO		NULL	
Transaction_ID	varchar(12)	NO	PRI	NULL	
TimeStamp	timestamp	NO		NULL	
Amount	decimal(16,2)	NO		0.00	
Transaction_Type	varchar(8)	NO		NULL	

5 rows in set (0.00 sec)

```
1 import pymysql,time
2 import random,string,time,csv,os
3 from datetime import datetime,date,timedelta
4
5 print("-"*40,"Welcome To ABCBank","-"*40)
6
7 c = pymysql.connect(user="root",host="localhost", password="root",database="abcbank")
8 cur = c.cursor()
9
10 def Main_Menu():
11     print("\nEnter: ")
12     print("\t1: To Create New Account")
13     print("\t2: To Login To Existing Account")
14     print("\t3: For Permanent Closure of Account")
15     print("\t4: For Opening or Closing of Fixed Deposit")
16     print("\t9: To Exit\n")
17
18 def custid():
19     res1 = "".join(random.choices(string.ascii_uppercase,k=4))
20     res2 = "".join(random.choices(string.digits,k=4))
21     res = res1 + res2
22     return res
23
24 def accno():
25     no = "".join(random.choices(string.digits,k=6))
26     no = "1210000085" + no
27     no = int(no)
28     return no
29
30 def transid():
31     no = "".join(random.choices(string.digits,k=12))
32     return no
33
34 def tridchk():
35     cur.execute("""select Transaction_ID from trans""")
36     transids = cur.fetchall()
37     trans_id = transid()
38     while trans_id in transids[0]:
39         trans_id = transid()
40     return trans_id
41
42 while True:
43     Main_Menu()
44     choice = int(input("\nEnter Your Choice:- "))
45     #Choice 1
46
47     if choice == 1:
48         try:
49             name = input("Enter Your Name:- ")
50             gen = input("Gender [M / F] :- ")
51             typ = input("""Enter Type of Account You want to open [SAVINGS / CURRENT] :- """)
52             pin = int(input("Set Your Pin [4 Digit] :- "))
53             pinc=int(input("Confirm Your Pin :- "))
54             cust_id = custid()
55             acc_no = accno()
56
57             while pin != pinc:
58                 print("\nPin Does Not Match!")
```

```

59     pin = int(input("Set Your Pin:- "))
60     pinc=int(input("Confirm Your Pin:- "))
61     print()
62
63     cur.execute("select Customer_ID from cd")
64     ids = cur.fetchall()
65     for i in ids:
66         while cust_id in i:
67             cust_id = custid()
68
69     cur.execute("select Account_Number from cd")
70     accnos = cur.fetchall()
71     for i in accnos:
72         while acc_no in i:
73             acc_no = accnos()
74
75     cur.execute(f""""insert into cd values('{cust_id}','{name}','{gen}',
76             {acc_no},{typ},{pin},{0})""")
77     c.commit()
78     print("\nAccount Created Successfully")
79     cur.execute(f"select * from cd where Customer_ID='{cust_id}'")
80     print("""\nPlease Note Your Account Details Carefully And
81             Don't Share It With Anyone.""")
82     print("\n", "*" * 60, "\n")
83     d=cur.fetchall()
84     for i in d:
85         print("Customer ID:-" ,i[0])
86         print("Account Name:-" ,i[1])
87         print("Gender:-" ,i[2])
88         print("Account Number:-" ,i[3])
89         print("Account Type" ,i[4])
90         print("Balance:-" ,i[6])
91         print("\n", "*" * 60, "\n")
92
93     except Exception as e:
94         print(e)
95         print("\nTry Again!")
96         continue
97
98     #Choice 2
99
100    elif choice == 2:
101        cid = input("\nEnter Your Customer ID :- ")
102        pinn = int(input("Enter Your Pin :- "))
103        cur.execute(f""""select * from cd where Customer_ID = '{cid}'
104    and Pin = {pinn}""")
105        data = cur.fetchall()
106        if len(data) == 0:
107            print("\nInvalid Customer ID or Pin!")
108            continue
109        print(f"\nWelcome {data[0][1]},\n")
110        print("Enter:- ")
111        print("\t1 To Add Money")
112        print("\t2 For Online Money Transfer")
113        print("\t3 To Display Transaction History")
114        print("\t4 To Download Transaction History")
115        print("\t5 To Withdraw Money")
116        print("\t6 To View Your Account Details")

```

```

117     print("\t9 To Go back to main menu")
118
119     while True:
120         ch = int(input("\nEnter Your Choice:- "))
121
122         #option 1 in choice 2
123         try:
124             if ch == 1:
125                 mon = float(input("Enter Amount To Add In Account:- "))
126                 cur.execute(f"update cd set Balance = Balance +
127                             {mon} where Customer_ID = '{cid}'")
128
129                 cur.execute(f"insert into trans values ('{cid}','{tridchk()}',
130                             '{str(datetime.now())}',{mon},'CREDIT'")
131
132                 print("\nAmount Added Successfully.")
133
134                 cur.execute(f"select Balance from cd where Customer_ID = '{cid}'")
135                 print(f"\nUpdated Balance = {cur.fetchall()[0][0]}")
136                 c.commit()
137                 continue
138
139             #option 2 in choice 2
140
141             elif ch == 2:
142                 acc2 = int(input("\nEnter Payee Account Number:- "))
143                 amt2 = float(input("Enter Amount To Be Transferred:- "))
144                 pin2 = int(input("Enter Your Account Pin To Confirm Transaction:- "))
145
146                 cur.execute(f"select * from cd where
147 Customer_ID = '{cid}' and Pin = {pin2}")
148
149                 dat = cur.fetchall()
150                 if len(dat) != 0:
151                     cur.execute("select Account_Number from cd")
152                     dat2 = cur.fetchall()
153                     list_accno = []
154                     for i in dat2:
155                         for j in i:
156                             list_accno.append(j)
157                     while acc2 not in list_accno:
158                         print("\nAccount with this Account Number Does Not Exists.")
159                         print("Enter Again. or enter 0 to Cancel Transaction")
160                         acc2 = int(input("\nEnter Payee Account Number:- "))
161                         if acc2 == 0:
162                             break
163                     cur.execute(f"select Balance from cd where Customer_ID = '{cid}'")
164                     dat4 = cur.fetchall()
165                     while amt2 > dat4[0][0]:
166                         print("\nLow Balance In Your Account.")
167                         print("Enter Amount Again or enter 0 to Cancel Transaction.")
168                         amt2 = float(input("\nEnter Amount To Be Transferred:- "))
169                         if amt2 == 0:
170                             break
171
172                     cur.execute(f"update cd set Balance = Balance +
173 {amt2} where Account_Number={acc2}")
174

```

```

175         cur.execute(f""update cd set Balance = Balance -
176 {amt2} where Customer_ID='{cid}'""")
177
178         cur.execute(f""insert into trans values ('{cid}','{tridchk()}',
179 '{str(datetime.now())}',{amt2},'DEBIT')""")
180
181         cur.execute(f""select Customer_ID from cd where
182 Account_Number={acc2};""")
183         dat6 = cur.fetchall()[0][0]
184         cur.execute(f""insert into trans values ('{dat6}','{tridchk()}',
185 '{str(datetime.now())}',{amt2},'CREDIT')""")
186         cur.execute(f""update cd set Balance =
187 Balance + {amt2/100} where Customer_ID='{cid}'""")
188
189         time.sleep(1)
190
191         cur.execute(f""insert into trans values ('{cid}','{tridchk()}',
192 '{str(datetime.now())}',{amt2/100},'CREDIT')""")
193
194         c.commit()
195         print("\n")
196         print(f"Your Online Transaction Is Successfull.")
197         print(f"Amount: {amt2} is Transferred To Account Number: {acc2}")
198         print(f"Yay! You have won a cashback of Rupees {amt2/100}\n")
199
200     #option 3 in choice 2
201     elif ch==3:
202         cur.execute(f""select * from trans where Customer_ID = '{cid}'
203 order by TimeStamp asc""")
204         th = cur.fetchall()
205         print("\n", ""*60, "\n")
206         print("Transaction ID",end="\t\t")
207         print("Date",end="\t\t")
208         print("Time",end="\t\t")
209         print("Amount",end="\t\t")
210         print("Transaction Type")
211         for i in th:
212             print(i[1],end="\t\t")
213             print(datetime.strftime(i[2],"%d-%m-%Y"),end="\t")
214             print(str(i[2].time()),end="\t\t")
215             print(i[3],end="\t\t")
216             print(i[4],end="\t\t")
217             print()
218         print("\n", ""*60, "\n")
219
220     #option 4 in choice 2
221     elif ch==4:
222         with open("Transaction_History.txt","w") as f:
223             hd = ["S. No.", "Transaction ID", "Date", "Time", "Amount",
224                 "Transaction Type"]
225             for i in hd:
226                 f.write(f"{i}\t\t")
227             cur.execute(f""select * from trans where
228 Customer_ID = '{cid}' order by TimeStamp asc""")
229             th1 = cur.fetchall()
230             j = 0
231             for i in th1:
232                 j = j + 1

```

```

233         f.write(f"\n{j}\t\t")
234         f.write(f"{i[1]}\t\t")
235         f.write(f"{datetime.strftime(i[2], '%d-%m-%Y')}\t")
236         f.write(f"{str(i[2].time())}\t\t")
237         f.write(f"{str(i[3])}\t\t")
238         f.write(f"{i[4].strip()}\n")
239     print("File Downloaded Successfully.")
240     print("File Name:- ", f.name)
241     print("File Location:- ", os.getcwd())
242
243     #option 5 in choice 2
244
245     elif ch == 5:
246         mon1 = float(input("Enter Amount To Be Withdrawn From Account:- "))
247         cur.execute(f"update cd set Balance = Balance - {mon1} where Customer_ID = '{cid}'")
248
249         cur.execute(f"insert into trans values
250 ('{cid}', '{tridchk()}', '{str(datetime.now())}', {mon1}, 'DEBIT')")
251
252         print("Amount Withdrawn Successfully.")
253         cur.execute(f"select Balance from cd where Customer_ID = '{cid}'")
254         print(f"Updated Balance = {cur.fetchall()[0][0]}")
255         c.commit()
256
257     #option 6 in choice 2
258     elif ch == 6:
259         cur.execute(f"select * from cd where Customer_ID='{cid}'")
260         print("\nPlease Note Your Account Details Carefully And Don't Share It With Anyone.\n")
261         print("\n", "*" * 60, "\n")
262
263         d10 = cur.fetchall()
264         for i in d10:
265             print("Customer ID:-", i[0])
266             print("Account Name:-", i[1])
267             print("Gender:-", i[2])
268             print("Account Number:-", i[3])
269             print("Account Type", i[4])
270             print("Balance:-", i[6])
271             print("\n", "*" * 60, "\n")
272
273     elif ch == 9:
274         break
275     except Exception as e:
276         print(e)
277         print("\nTry Again\n")
278         continue
279
280     else:
281         while ch not in [1, 2, 3, 4, 5, 6, 9]:
282             print("Invalid Input! Enter Again.")
283             ch = int(input("Enter Your Choice:- "))
284
285     #choice 3
286     elif choice == 3:
287         name = input("Enter Your Name:- ")
288         cuid = input("Enter Your Customer ID:- ")
289         acno = int(input("Enter Your Account Number:- "))
290         pinnc = int(input("Enter Your Pin:- "))

```

```

291     cur.execute(f"""select * from cd where Customer_ID = '{cuid}' and
292 Account_Number = {acno} and Name = '{name}' and Pin = {pinnc}""")
293     data10 = cur.fetchall()
294     if len(data10) != 0:
295         cur.execute(f"""delete from cd where Customer_ID = '{cuid}' and
296 Account_Number = {acno} and Name = '{name}' and Pin = {pinnc}""")
297         c.commit()
298         print("Your Account Is Permanently Closed.")
299     else:
300         print("Wrong Entry. Try Again.")
301     #choice 4
302     elif choice == 4:
303
304         c_id = input("Enter Your Customer ID:- ")
305         pin1 = int(input("Enter Your Pin:- "))
306         cur.execute(f"""select * from cd where
307 Customer_ID = '{c_id}' and Pin = {pin1}""")
308         data2 = cur.fetchall()
309
310         if len(data2) != 0:
311
312             ap = """Enter    1 To Open Fixed Deposit
313 2 To Close Fixed Deposit
314 9 To Go back to main menu
315 """
316             print("\n", "*" * 60, "\n")
317             print("\t\tTime Period", end="\t\t")
318             print("Rate Of Interest", end="\n\t\t")
319             print("Less Than 6 Months", end="\t\t")
320             print("4.25%", end="\n\t\t")
321             print("6 Months To 1 Year", end="\t\t")
322             print("5%", end="\n\t\t")
323             print("1 Year To Less Than 2 Years", end="\t\t")
324             print("6.4%", end="\n\t\t")
325             print("2 Years", end="\t\t\t\t")
326             print("7%", end="\n\t\t")
327             print("More Than 2 Years Upto 5 Years", end="\t")
328             print("6.6%", end="\n\t\t")
329             print("\n", "*" * 60, "\n")
330             print(ap)
331
332             uch = int(input("Enter Your Choice :- "))
333
334             if uch == 1:
335                 pamt = float(input("Enter Principal Amount:- "))
336                 tmp = int(input("Enter Time Period [in no. of days] :- "))
337                 cur.execute(f"select Balance from cd where Customer_ID = '{c_id}'")
338                 dataf = cur.fetchall()
339                 while pamt > dataf[0][0]:
340                     print("Insufficient Balance! Press 0 to Exit or modify Principal amount.")
341                     pamt = float(input("Enter Principal Amount or 0 to Exit :- "))
342                     if pamt == 0:
343                         break
344                 while tmp > 1830:
345                     print("Time Period is Greater than expected value. Enter Again or 0 to exit.")
346                     tmp = int(input("Enter Time Period [in no. of days] :- "))
347                     if tmp == 0:
348                         break

```



```

349         break
350     if tmp<180:
351         roi = 4.25
352     elif 180<=tmp<=365:
353         roi = 5
354     elif 365<tmp<730:
355         roi = 6.4
356     elif tmp == 730:
357         roi = 7
358     else:
359         roi = 6.6
360     dtoday=str(date.today())
361     fdno = "".join(random.choices(string.digits,k=8))
362     mamt = (((roi/100)*pamt)/365) * tmp + pamt
363     fdate = datetime.strptime(dtoday, "%Y-%m-%d") + timedelta(days=tmp)
364     qf = f""insert into fds values
365 ('{c_id}','{fdno}','{dtoday}','{pamt}','{tmp}','{fdate}','{roi}','{mamt}')""
366     cur.execute(qf)
367     cur.execute(f""update cd set Balance =
368 Balance - {pamt} where Customer_ID = '{c_id}'"" )
369
370     cur.execute(f""insert into trans values
371 ('{c_id}','{tridchk()}', '{str(datetime.now())}', {pamt}, 'DEBIT')"" )
372     c.commit()
373     cur.execute(f"select * from fds where Customer_ID='{c_id}'")
374     tp9 = cur.fetchall()[0]
375     print("\nFD has been created successfully.\n")
376     print("FD Number",tp9[1])
377
378     elif uch == 2:
379         print("FD's Associated With Given Customer ID are Below:- ")
380         cur.execute(f"select * from fds where Customer_ID='{c_id}'")
381         rec2 = cur.fetchall()
382         for i in rec2:
383             print(i,"\n")
384         uin2 = int(input("Enter FD Number of the FD to be Closed:- "))
385         fpin2 = int(input("Enter Your Pin To Continue:- "))
386         cur.execute(f""select * from cd where Customer_ID='{c_id}' and
387 Pin={fpin2}"" )
388         fdata2 = cur.fetchall()
389         if len(fdata2) != 0:
390             cur.execute(f"select * from fds where FD_Number={uin2}")
391             fdata9 = cur.fetchall()
392             dtoday1=str(date.today())
393             fdate1 = datetime.strptime(dtoday1, "%Y-%m-%d") - datetime.strptime(str(fdata9[0][2]
394 fdamt1 = (((fdata9[0][6]/100)*fdata9[0][3])/365) * fdate1.days + fdata9[0][3]
395             cur.execute(f""update cd set Balance=Balance+{fdamt1}
396 where Customer_ID='{c_id}'"" )
397
398             cur.execute(f"insert into trans values ('{c_id}','{tridchk()}', '{str(datetime.now())}', {fdamt1}, '
399             cur.execute(f"delete from fds where FD_Number={uin2}")
400             c.commit()
401             print(f"\nFD with FD number {uin2} has been successfully closed.")
402             print(f"The maturity amount of Rupees {fdamt1} has been successfully added to your ac
403         elif uch == 9:
404             break
405         else:
406             print("Invalid Input! Try Again.")

```



```
407         uch = int(input("Enter Your Choice :- "))
408     elif choice == 9:
409         print("Thank You. Visit Again.")
410         break
411     else:
412         while choice not in [1,2,3,4,9]:
413             print("Invalid Input! Enter Again.")
414             choice = int(input("Enter Your Choice:- "))
415 print("Thank You! Please Visit Again")
```

----- Welcome To ABCBank -----

Enter:

- 1: To Create New Account
- 2: To Login To Existing Account
- 3: For Permanent Closure of Account
- 4: For Opening or Closing of Fixed Deposit
- 9: To Exit

Enter Your Choice:- 1

Enter Your Name:- Arjav

Gender [M / F] :- M

Enter Type of Account You want to open [SAVINGS / CURRENT] :- SAVINGS

Set Your Pin [4 Digit] :- 1234

Confirm Your Pin :- 1234

Account Created Successfully

Please Note Your Account Details Carefully And  
Don't Share It With Anyone.

\*\*\*\*\*

Customer ID:- PJIW7928

Account Name:- Arjav

Gender:- M

Account Number:- 1210000085969117

Account Type SAVINGS

Balance:- 0.00

\*\*\*\*\*

Enter:

- 1: To Create New Account
- 2: To Login To Existing Account
- 3: For Permanent Closure of Account
- 4: For Opening or Closing of Fixed Deposit
- 9: To Exit

Enter Your Choice:- 2

Enter Your Customer ID :- PJIW7928

Enter Your Pin :- 1234

Welcome Arjav,

Enter:-

- 1 To Add Money
- 2 For Online Money Transfer
- 3 To Display Transaction History
- 4 To Download Transaction History
- 5 To Withdraw Money
- 6 To View Your Account Details
- 9 To Go back to main menu

Enter Your Choice:- 1

Enter Amount To Add In Account:- 10000

Amount Added Successfully.

Updated Balance = 10000.00

Enter Your Choice:- 2

Enter Payee Account Number:- 1210000085433397

Enter Amount To Be Transferred:- 2000

Enter Your Account Pin To Confirm Transaction:- 1234

Your Online Transaction Is Successfull.

Amount: 2000.0 is Transferred To Account Number: 1210000085433397

Yay! You have won a cashback of Rupees 20.0

Enter Your Choice:- 3

\*\*\*\*\*

Transaction ID	Date	Time	Amount	Transaction Type
615694813081	03-01-2023	22:43:53	10000.00	CREDIT
669374613772	03-01-2023	22:44:55	2000.00	DEBIT
264895107339	03-01-2023	22:44:56	20.00	CREDIT

\*\*\*\*\*

Enter Your Choice:- 4

File Downloaded Successfully.

File Name:- Transaction\_History.txt

File Location:- D:\CS-Project

Enter Your Choice:- 5

Enter Amount To Be Withdrawn From Account:- 1000

Amount Withdrawn Successfully.

Updated Balance = 7020.00

Enter Your Choice:- 6

Please Note Your Account Details Carefully And Don't Share It With Anyone.

\*\*\*\*\*

Customer ID:- PJIW7928

Account Name:- Arjav

Gender:- M

Account Number:- 1210000085969117

Account Type SAVINGS

Balance:- 7020.00

Enter Your Choice:- 7

Invalid Input! Enter Again.

Enter Your Choice:- 9

Enter Your Choice:- 9

Enter:

- 1: To Create New Account
- 2: To Login To Existing Account
- 3: For Permanent Closure of Account
- 4: For Opening or Closing of Fixed Deposit
- 9: To Exit

Enter Your Choice:- 3

Enter Your Name:- Arjav

Enter Your Customer ID:- PJIW7928

Enter Your Account Number:- 1210000085969117

Enter Your Pin:- 1234

Your Account Is Permanently Closed.

Enter:

- 1: To Create New Account
- 2: To Login To Existing Account
- 3: For Permanent Closure of Account
- 4: For Opening or Closing of Fixed Deposit
- 9: To Exit

Enter Your Choice:- 4

Enter Your Customer ID:- WWAR5917

Enter Your Pin:- 6000

\*\*\*\*\*

Time Period	Rate Of Interest
Less Than 6 Months	4.25%
6 Months To 1 Year	5%
1 Year To Less Than 2 Years	6.4%
2 Years	7%
More Than 2 Years Upto 5 Years	6.6%

\*\*\*\*\*

Enter 1 To Open Fixed Deposit

2 To Close Fixed Deposit

9 To Go back to main menu

Enter Your Choice :- 1

Enter Principal Amount:- 5000

Enter Time Period [in no. of days] :- 730

FD has been created successfully.

FD Number 99779480

Enter:

- 1: To Create New Account

- 2: To Login To Existing Account
- 3: For Permanent Closure of Account
- 4: For Opening or Closing of Fixed Deposit
- 9: To Exit

Enter Your Choice:- 4

Enter Your Customer ID:- WWAR5917

Enter Your Pin:- 6000

\*\*\*\*\*

Time Period	Rate Of Interest
Less Than 6 Months	4.25%
6 Months To 1 Year	5%
1 Year To Less Than 2 Years	6.4%
2 Years	7%
More Than 2 Years Upto 5 Years	6.6%

\*\*\*\*\*

- Enter    1 To Open Fixed Deposit  
          2 To Close Fixed Deposit  
          9 To Go back to main menu

Enter Your Choice :- 2

FD's Associated With Given Customer ID are Below:-

('WWAR5917', 99779480, datetime.date(2023, 1, 3), 5000, '730', datetime.date(2025, 1, 2), 7.0, 5700.0)

Enter FD Number of the FD to be Closed:- 99779480

Enter Your Pin To Continue:- 6000

FD with FD number 99779480 has been successfully closed.  
The maturity amount of Rupees 5000.0 has been successfully added to your account.

Enter:

- 1: To Create New Account
- 2: To Login To Existing Account
- 3: For Permanent Closure of Account
- 4: For Opening or Closing of Fixed Deposit
- 9: To Exit

Enter Your Choice:- 2

Enter Your Customer ID :- WWAR5917

Enter Your Pin :- 6000

Welcome Vishesh,

Enter:-

- 1 To Add Money
- 2 For Online Money Transfer
- 3 To Display Transaction History
- 4 To Download Transaction History
- 5 To Withdraw Money
- 6 To View Your Account Details

9 To Go back to main menu

Enter Your Choice:- 3

\*\*\*\*\*

Transaction ID	Date	Time	Amount	Transaction Type
039017679016	03-01-2023	22:44:55	2000.00	CREDIT
890173194004	03-01-2023	22:47:28	5000.00	DEBIT
109707937167	03-01-2023	22:48:16	5000.00	CREDIT

\*\*\*\*\*

Enter Your Choice:- 9

Enter:

- 1: To Create New Account
- 2: To Login To Existing Account
- 3: For Permanent Closure of Account
- 4: For Opening or Closing of Fixed Deposit
- 9: To Exit

Enter Your Choice:- 9

Thank You. Visit Again.

Thank You! Please Visit Again

>>> |

Ln: 264, Col:

Transaction\_History - Notepad

S. No.	Transaction ID	Date	Time	Amount	Transaction Type
1	615694813081	03-01-2023	22:43:53	10000.00	CREDIT
2	669374613772	03-01-2023	22:44:55	2000.00	DEBIT
3	264895107339	03-01-2023	22:44:56	20.00	CREDIT

```
mysql> use abcbank;
Database changed
mysql> select * from cd;
+-----+-----+-----+-----+-----+-----+
| Customer_ID | Name   | Gender | Account_Number | Account_Type | Pin   | Balance |
+-----+-----+-----+-----+-----+-----+
| PJIW7928    | Arjav  | M      | 1210000085969117 | SAVINGS      | 1234 | 10000.00 |
| WWAR5917    | Vishesh | M      | 1210000085433397 | SAVINGS      | 6000 | 5000.00 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select * from cd;
+-----+-----+-----+-----+-----+-----+
| Customer_ID | Name   | Gender | Account_Number | Account_Type | Pin   | Balance |
+-----+-----+-----+-----+-----+-----+
| WWAR5917    | Vishesh | M      | 1210000085433397 | SAVINGS      | 6000 | 7000.00 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```