A Project On

Automated Teller Machine

Submitted By

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XII-S2

Roll No.-28

Under The Guidance Of

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SURYA NAGAR

GHAZIABAD

CERIFICATE

This is to certify that **SARTHAK DIXIT** of Class XII-S2 has prepared the report on the Project entitled **“Automated Teller Machine(ATM)”**. The report is the result of his efforts and endeavours. The report is deemed worthy of acceptance as final project report for the subject Computer Science Of Class XII. He has prepared the report under my guidance.

(SUNITA SHARMA)

PGT(Computer Science)

Vidya Bharati School

CERTIFICATE

The project report entitled

“Automated Teller Machine”

Submitted by **SARTHAK DIXIT** of Class XII-S2 for the CBSE Senior Secondary Examination Class XII of Computer Science at Vidya Bharati School, C-Block, Surya Nagar, Ghaziabad has been examined.

Signature of Examiner

DECLARATION

I hereby declare the project entitled

“Automated Teller Machine”,

submitted to Vidya Bharati School, C-Block Surya Nagar, Ghaziabad is prepared by me. All the coding in the project are result of my personal efforts.

SARTHAK DIXIT

ACKNOWLEDGEMENT

I would like to express a deep sense of thanks & gratitude to my project guide Mrs. Sunita Sharma for guiding me immensely through the course of my project. She always evinced keen interest in my work. Her constructive advice &constant motivation have been responsible for the successful completion of this project.

My sincere thanks to Mrs. Manjusha Joshi, our Principal Ma'am, for her co-ordination in extending every possible support for the completion of this project.

I would also like to thank my parents for their motivation & support. I must thank my classmates for their timely help & support for compilation of this project.

Last but not least, I would like to thank all those who helped directly or indirectly for the completion of this project.

SARTHAK DIXIT

CLASS- XII-S2

TABLE OF CONTENTS

1. CERTIFICATE..……..

2. DECLARATION……..

3. ACKNOWLEDGEMENT……..

4. TABLE OF CONTENTS…….

5. FLOW CHART……

6. MODULES USED…….……..

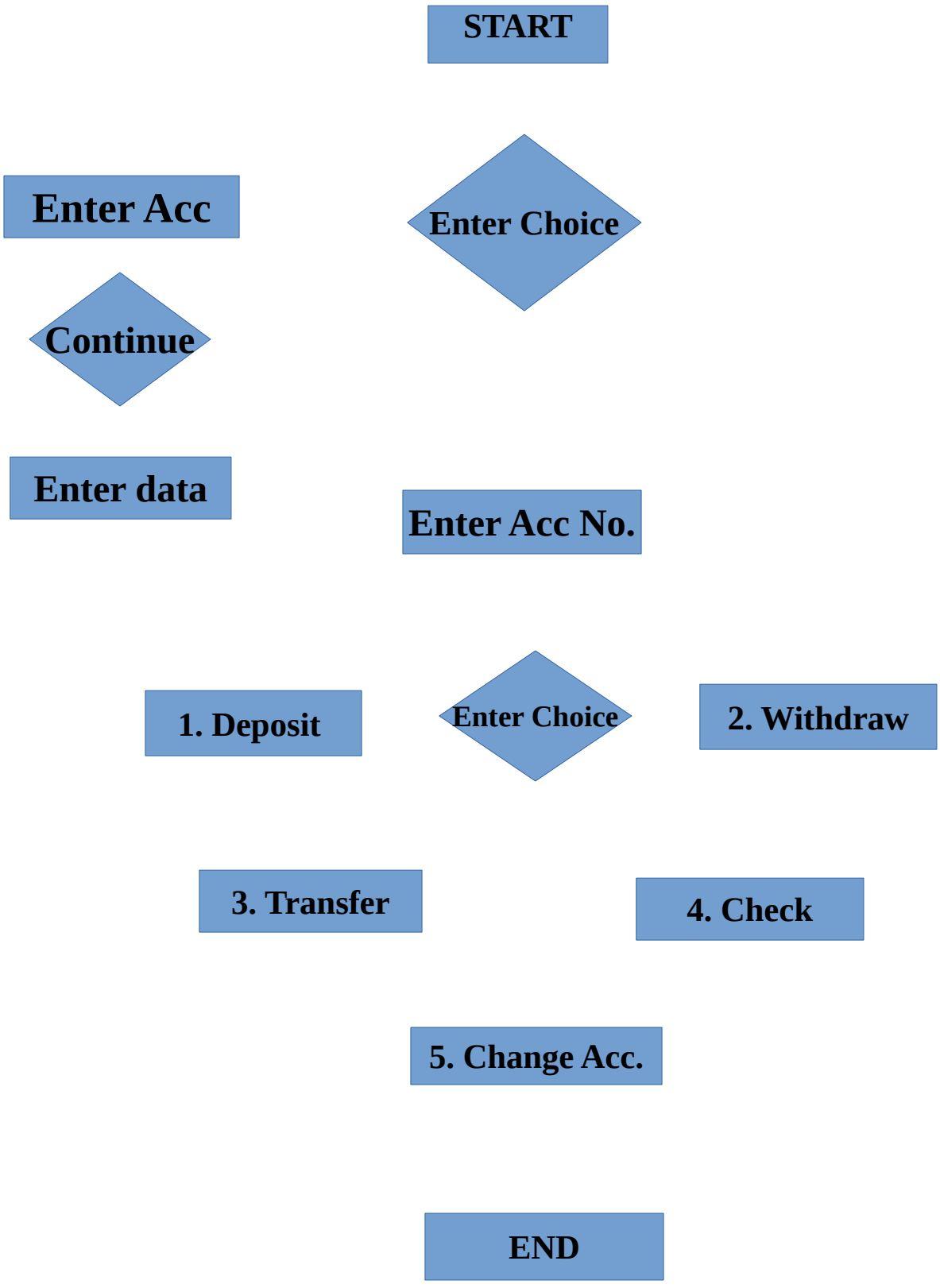
7. SOURCE CODE……..

8. PYTHON OUTPUT……

9. MySQL TABLES…..……...

10. BIBLIOGRAPHY……..

FLOW CHART


START
Enter Acc
Enter Choice
Continue
Enter data
Enter Acc No.
1. Deposit
Enter Choice
2. Withdraw
3. Transfer
4. Check
5. Change Acc.
END

MODULE USED

MySQL.connector() enables Python programs to access MySQL databases, using an API that is compliant with the Python Database API Specification v2. 0 (PEP 249). It is written in pure Python and does not have any dependencies except for the Python Standard Library.

SOURCE CODE

```
#AUTOMATED TELLER MACHINE

#SUBMITTED BY- SARTHAK DIXIT

import mysql.connector as sql

conn=sql.connect(host='localhost',user='sarthak',password='password',database='cs_p
rojectdb')

c1=conn.cursor()

print("================================================================================")

print("                        WELCOME TO OUR ATM ")

print("================================================================================")

print("1.To create account")

print("2.To login")

print("3.Exit")

print("================================================================================")

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

print("================================================================================")

if op==1:

      c="y"

      while c=="y":

            m=int(input("Enter a 4 digit number as accont number:"))

            cb="select * from records where ACCONT_NO={}".format(m)

            c1.execute(cb)

            d=c1.fetchall()

            data=c1.rowcount

            if data==1:

print("================================================================================")

                  print("This account number already exists:")

                  c=input("Do you want to continue y/n -")

print("================================================================================")
```

```
                if c=="y":
                      continue
                else:
                      print("                    Thank you.")
                      print("           PLEASE CLOSE THIS FILE BEFORE EXITING")
                      print("Visit again")

print("================================================================================")
            else:
                  name=input("Enter your name:")
                  passw=int(input("Enter your pass word:"))
                  ab="insert into records(ACCONT_NO,PASSWORD,NAME) values({},
{},'{}')".format(m,passw,name)

print("================================================================================")
                  c1.execute(ab)
                  conn.commit()
                  print("Account sucessfully created")
                  print("The minimum balance is 1000 ")

print("================================================================================")
                  s=int(input("Enter the money to be deposited :"))

print("================================================================================")
                  sr="update records set  CR_AMT={} where ACCONT_NO={}".format(s,m)
                  c1.execute(sr)
                  conn.commit()
                  ef="update records set balance=cr_amt-withdrawl where
ACCONT_NO={}".format(m)
                  c1.execute(ef)
                  conn.commit()
                  print("sucessfully deposited")
                  print("                    Thank you")
                  print("           PLEASE CLOSE THIS FILE BEFORE EXITING")
                  print("Visit again")
```

```
                break
if op==2:
      y="y"
      while y=="y":
            acct=int(input("Enter your account number:"))
            cb="select * from records where ACCONT_NO={}".format(acct)
            c1.execute(cb)
            c1.fetchall()
            data=c1.rowcount
            if data==1:
                  pas=int(input("Enter your password  :"))

print("================================================================================")
                  e="select password from records where ACCONT_NO={}".format(acct)
                  c1.execute(e)
                  a=c1.fetchone()
                  d=list(a)
                  if pas==d[0]:
                        print("correct")
                        print("1.Depositng money")
                        print("2.Withdrawing money")
                        print("3.Transfering money")
                        print("4.Checking balance")
                        print("5.Changing Account number ")

print("================================================================================")
                        r=int(input("Enter your choice:"))

print("================================================================================")
                        if r==1:
                              amt=int(input("Enter the money to be deposited:"))

print("================================================================================")
                              sr="update records set CR_AMT=CR_AMT + {} where
ACCONT_NO={}".format(amt,acct)
```

```
                              c1.execute(sr)
                              conn.commit()
                              ef="update records set balance=cr_amt-withdrawl where
ACCONT_NO={}".format(acct)
                              c1.execute(ef)
                              conn.commit()
                              print("sucessfully deposited")
                              t=input("Do you want to continue y/n -")

print("================================================================================")
                              if t=="y":
                                    continue
                              else:
                                    print("                    Thank you")
                                    print("           PLEASE CLOSE THIS FILE BEFORE
EXITING")
                        if r==2:
                              amt=int(input("Enter the money to withdraw:"))

print("================================================================================")
                              ah="select  BALANCE from records where
accont_no={}".format(acct)
                              c1.execute(ah)
                              m=c1.fetchone()
                              if amt >m[0]:
                                    print("Your are having less than",amt)
                                    print("Please try again")

print("================================================================================")
                              else:
                                    sr="update records set balance=balance - {}
where ACCONT_NO={}".format(amt,acct)
                                    ed="update records set  WITHDRAWL ={}  where
ACCONT_NO={}".format(amt,acct)
                                    c1.execute(ed)
                                    c1.execute(sr)
```

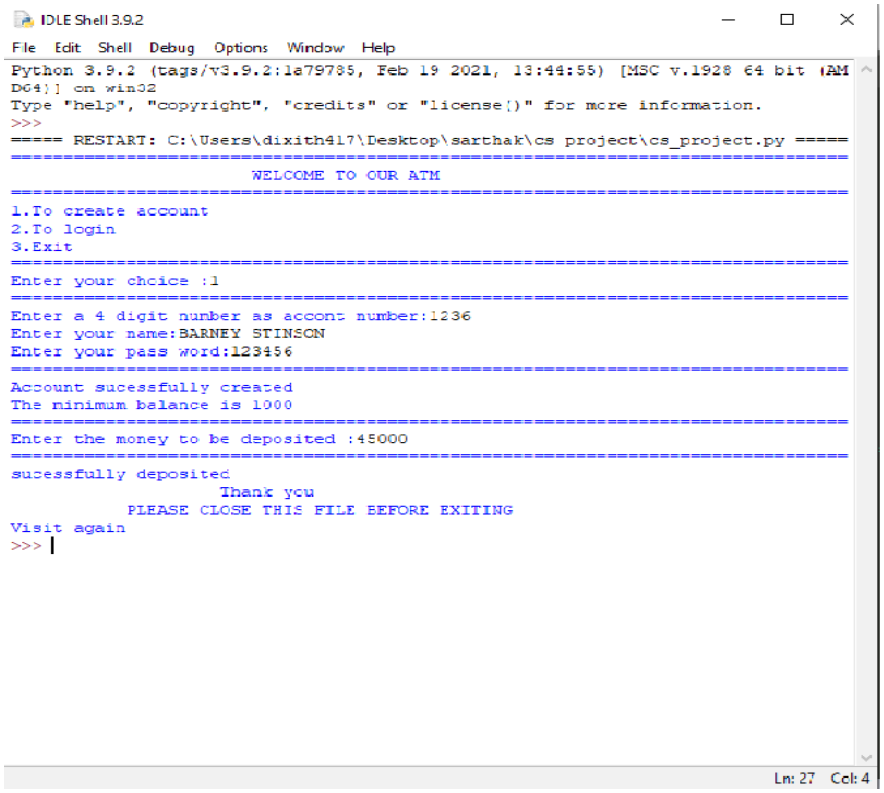
```
                                    conn.commit()
                                    print("Sucessfully updatad")
                              y=input("do you want to continue y/n -")
                              if y=="y":
                                    continue
                              else:
                                    print("                    Thank you")
                                    print("           PLEASE CLOSE THIS FILE BEFORE
EXITING")
                        if r==3:
                              act=int(input("Enter the accont number to be
transferrsd :"))

print("============================================================================")
                              cb="select * from records where
ACCONT_NO={}".format(act)
                              c1.execute(cb)
                              c1.fetchall()
                              data=c1.rowcount
                              if data==1:
                                    print(act ,"number exists")
                                    m=int(input("Enter the money to be
transferred :"))

print("============================================================================")
                                    ah="select  BALANCE from records where
accont_no={}".format(acct)
                                    c1.execute(ah)
                                    c=c1.fetchone()
                                    if m > c[0]:
                                          print("Your are having less than",m)
                                          print("Please try again")

print("============================================================================")
                                    else:
```

```
                                    av="update records set balance=balance-{}
where ACCONT_NO={}".format(m,acct)
                                    cv="update records set balance=balance+{}
where ACCONT_NO={}".format(m,act)
                                    w="update records set
withdrawl=withdrawl+{} where accont_no={}".format(m,acct)
                                    t="update records set  CR_AMT=CR_AMT+{}
where accont_no={}".format(m,act)
                                    c1.execute(av)
                                    c1.execute(cv)
                                    c1.execute(w)
                                    c1.execute(t)
                                    conn.commit()
                                    print("Sucessfully transfered")
                              y=input("do you want to continue y/n -")
                              if y=="y":
                                    continue
                              else:
                                    print("                    Thank you")
                                    print("           PLEASE CLOSE THIS FILE
BEFORE EXITING")
                        if r==4:
                              ma="select balance from records where
accont_no={}".format(acct)
                              c1.execute(ma)
                              k=c1.fetchone()
                              print("Balance in your account=",k)

print("================================================================================")
                              y=input("do you want to continue y/n -")
                              if y=="y":
                                    continue
                              else:
                                    print("                    Thank you")
                                    print("           PLEASE CLOSE THIS FILE BEFORE
EXITING")
```

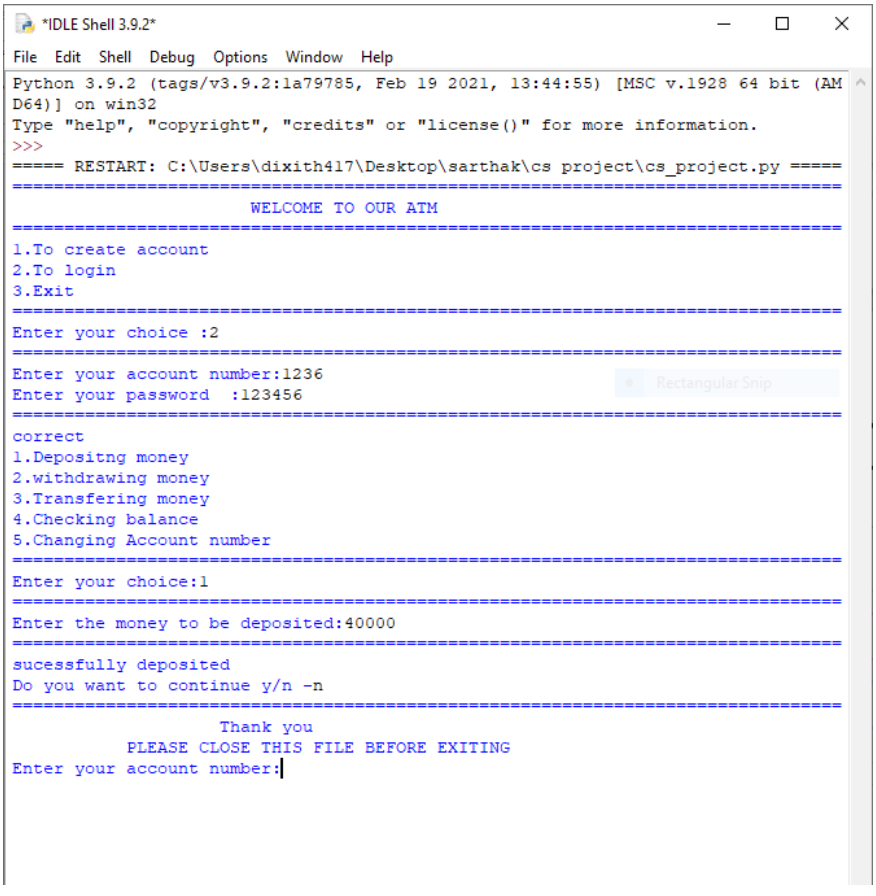
```
                        if r==5:
                              i=int(input("Enter your new account number:"))
                              cb="select * from records where
ACCONT_NO={}".format(i)
                              c1.execute(cb)
                              c1.fetchall()
                              data=c1.rowcount
                              if data==1:
                                    print("This number already exists")
                                    print("Try again")
                                    y=input("do you want to continue y/n -")
                                    if y=="y":
                                          continue
                                    else:
                                          print("                    Thank you")
                                          print("           PLEASE CLOSE THIS FILE
BEFORE EXITING")
                              else:
                                    name=input("Enter your name")
                                    ar="Update records set accont_no={} where
name='{}' and password={}".format(i,name,pas)
                                    c1.execute(ar)
                                    conn.commit()
                                    print("Your new account number is ",i)
                  else:
                        print("Wrong password")

print("================================================================================")
                        y=input("do you want to continue y/n -")
            else:
                  print("your Account does not exists")
if op==3:
print("Exiting")
print("Please close this file before exiting.")
```

```
c1.close()
```

PYTHON OUTPUT

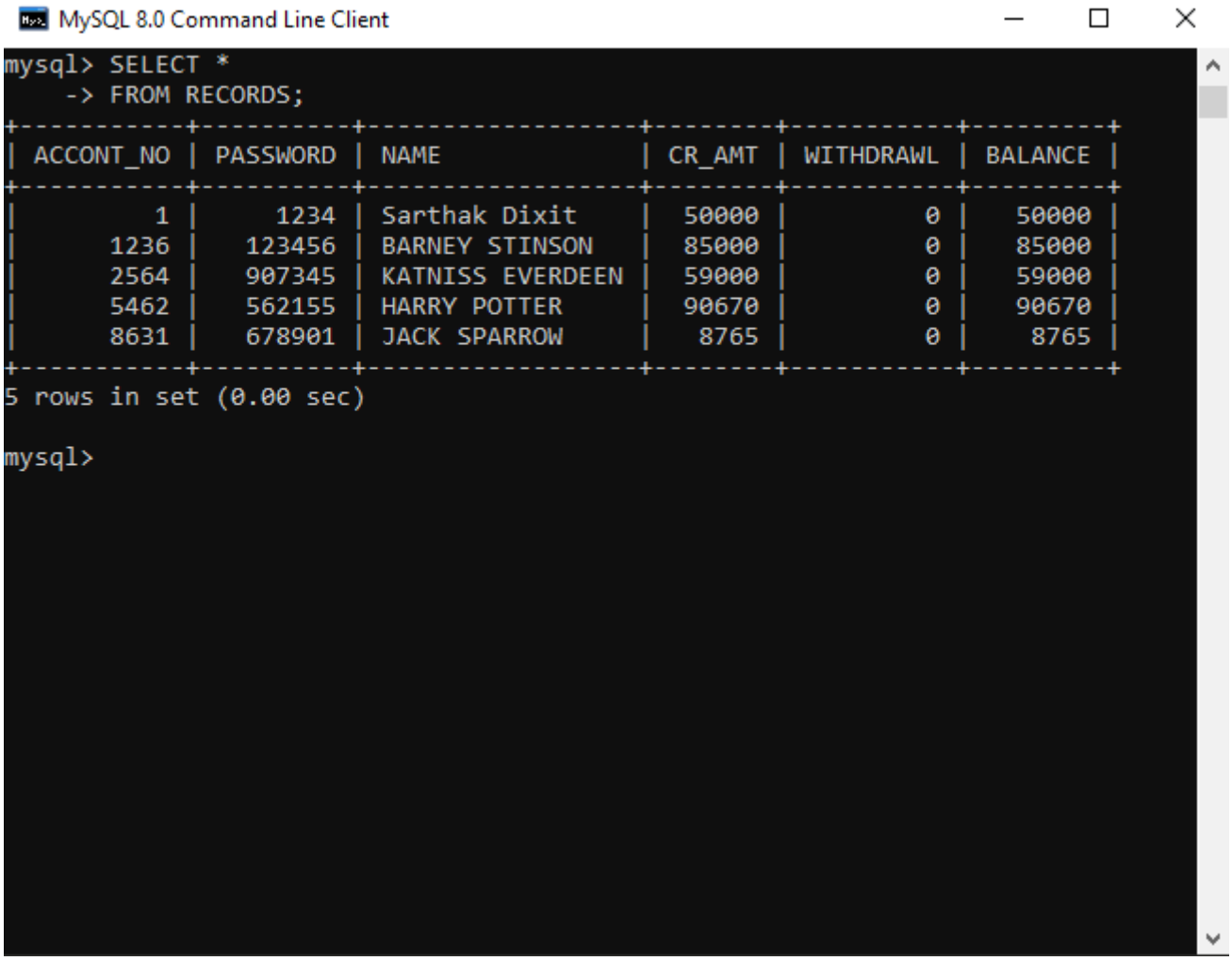


```
IDLE Shell 3.9.2
File  Edit  Shell  Debug  Options  Window  Help
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\dixith417\Desktop\sarthak\cs project\cs_project.py =====
================================================================================
                        WELCOME TO OUR ATM
================================================================================
1.To create account
2.To login
3.Exit
================================================================================
Enter your choice :1
================================================================================
Enter a 4 digit number as accont number:1236
Enter your name:BARNEY STINSON
Enter your pass word:123456
================================================================================
Account sucessfully created
The minimum balance is 1000
================================================================================
Enter the money to be deposited :45000
================================================================================
sucessfully deposited
                    Thank you
            PLEASE CLOSE THIS FILE BEFORE EXITING
Visit again
>>>
                                                                    Ln: 27  Col: 4
```



```
*IDLE Shell 3.9.2*
File  Edit  Shell  Debug  Options  Window  Help
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\dixith417\Desktop\sarthak\cs project\cs_project.py =====
================================================================================
                        WELCOME TO OUR ATM
================================================================================
1.To create account
2.To login
3.Exit
================================================================================
Enter your choice :2
================================================================================
Enter your account number:1236
Enter your password  :123456
================================================================================
correct
1.Depositng money
2.withdrawing money
3.Transfering money
4.Checking balance
5.Changing Account number
================================================================================
Enter your choice:1
================================================================================
Enter the money to be deposited:40000
================================================================================
sucessfully deposited
Do you want to continue y/n -n
================================================================================
                    Thank you
            PLEASE CLOSE THIS FILE BEFORE EXITING
Enter your account number:
```

MySQL TABLE


MySQL 8.0 Command Line Client
mysql> SELECT *
-> FROM RECORDS;
+-----------+----------+------------------+--------+-----------+---------+
| ACCONT_NO | PASSWORD | NAME | CR_AMT | WITHDRAWL | BALANCE |
+-----------+----------+------------------+--------+-----------+---------+
1	1234	Sarthak Dixit	50000	0	50000
1236	123456	BARNEY STINSON	85000	0	85000
2564	907345	KATNISS EVERDEEN	59000	0	59000
5462	562155	HARRY POTTER	90670	0	90670
8631	678901	JACK SPARROW	8765	0	8765
+-----------+----------+------------------+--------+-----------+---------+
5 rows in set (0.00 sec)
mysql>

BIBLIOGRAPHY

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2. https://en.wikipedia.org/
3. https://stackoverflow.com/
4. SUMITA ARORA CLASS XII
5. SUMITA ARORA CLASS XI