

**AN INVESTIGATORY**

**PROJECT**

**ON**

****

**Submitted to:- Submitted by:-**

Mr. C. Vijaya Kumar B.Tech,MBA \*T.BudhaPrabhas

\*D.Vijayakrishna

\* N.Someswar

**CERTIFICATE**

This is to certify that  **T.Budhaprabhas,** a student of **Class-XII of GVK Chinmaya Vidyalaya** has successfully completed the research on the project of  **Finance Management** under the Guidance of  **Mr C. Vijaya Kumar** during the year **2020-21** in partial fulfillment of Computer practical examination conducted by **AISSCE, New Delhi.**

**Date :**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Principal’s Signature

**Signature of Internal Signature of External**

**Examiner Examiner**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Countersigned by:

Mr.C.Vijaya Kumar

PGT(CS)

**Acknowledgement**

* I have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals.
* I would like to thank my principal **Mr. Ajit Thakur** and school for providing facilities required to do my project.
* I am highly indebted to my computer teacher, **Mr C. Vijaya Kumar**, for his invaluable guidance which has sustained my efforts in all stages of this project work.
* I would also like to thank my parents for their continuous support and encouragement.
* My thanks and appreciations also go to my fellow classmates in developing the project and to the people who have willingly helped me out with their abilities.

**LIST OF CONTENTS:**

* **Header files and their purpose**
* **Coding**
* **Output**
* **Limitations**
* **Requirements**
* **Bibliography**

**HEADER FILES USED AND THEIR PURPOSE**

**1. pymysql**

CODE FOR PROGRAM:

import pymysql as pym

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FUNCTION TO CALL MENU

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

def con():

a=input("Press any key to continue")

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FUNCTION FOR LOAN ENQUIRE

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

def months2():

n=int(input("Enter the Account Number:"))

mycon=pym.connect(host='localhost',user='root',passwd='tiger',

database='emi')

cur=mycon.cursor()

cur.execute('select \* from months2')

data=cur.fetchall()

for i in data:

if n==i[0]:

print("\n\t\tName:",i[1])

print("\nFirst month loan:",i[2])

print("Second month loan:",i[3])

print("Third month loan:",i[4])

print("Fourth month loan:",i[5])

print("Fifth month loan:",i[6])

print("Sixth month loan:",i[7])

break

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FUNCTION FOR LOAN REPAYMENT

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

def loan\_repay():

n=int(input("Enter the Account Number:"))

mycon=pym.connect(host='localhost',user='root',passwd='tiger',database='emi')

cur=mycon.cursor()

cur.execute('select \* from emi')

data=cur.fetchall()

ans=input('Do you want to pay your monthly installment(y/n)...')

month=int(input('Enter the month number:'))

if month>=1 and month<7:

if ans=='y':

for i in data:

if n==i[0]:

print('Your Monthly istallment per month is:',i[6])

if i[5]==0:

print("You had cleared your loan amount :)")

break

st='Update emi set In\_Amount={} where Acc\_no={}'

if month==1:

st1='update months2 set Fi\_Mo="{}" where Acc\_no={}'

elif month==2:

st1='update months2 set Se\_Mo="{}" where Acc\_no={}'

elif month==1:

st1='update months2 set Thi\_Mo="{}" where Acc\_no={}'

elif month==1:

st1='update months2 set Fo\_Mo="{}" where Acc\_no={}'

elif month==1:

st1='update months2 set Fiv\_Mo="{}" where Acc\_no={}'

else:

st1='update months2 set Si\_Mo="{}" where Acc\_no={}'

cur.execute(st.format(i[5]-i[6],n))

mycon.commit()

cur.execute(st1.format("Paid",n))

mycon.commit()

break

else:

print("Please Enter the Valid Account Number")

else:

print('Thank you for your cooperation')

cur.execute('select \* from emi')

data=cur.fetchall()

for i in data:

if n==i[0]:

print('Your remaining loan amount',i[5])

break

else:

print("Please Enter the Valid Account Number")

else:

print('Enter month between 1 and 6:')

month=int(input('Enter the month number:'))

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FUNCTION FOR EMI Details

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

def emiinfo():

print("\t\t\t\t\t\t\tKey Factors Affecting the EMI")

print("\n\tOur Company interset rate is about 2% before taking

the Loan,Please read the Following document carefully.")

print("\n\tOur Interest rate calculation:")

print("\n\n\t1.Principal(P): It is the sum of money that you

borrow from the lender.")

print("Principal is an essential factor while determining the cost

of your loan as Interest is calculated as a percentage of

your principal")

print("\n\t2.Tenure of Loan(T): It is the time period for which you

have borrowed.")

print("It has a major impact on EMI amount. Monthly installment

is lesser for longer tenure loans and vice a versa.")

print("\n\t3.Interest Rate(R): It is the rate at which lender offers

you the loan.")

print("Its important to do the basic research on interest rates

offered in the market.Getting a competitive rate helps you

work out a cost of loan in your benefit.")

print("\n\n\tEquated Monthly Installment(EMI)=P\*T\*R/100")

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ABOUT US

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

def About\_us():

print("\t\t\t\t\t\t\t\t COMPUTER PROJECT")

print("\nPROJECT TITLE:FINANCE MANAGEMENT")

print("\n\tDevelopers: N.someswar , T.Budha prabhas , D.vijaya Krishna")

print("\tClass:XII")

print("\tSUBJECT:Computer Science")

print("\tRequired Software:Spyder")

print("\n\n • As a loan officer:-")

print(" • Our primary goal is to determine the best mortgage loan program for our

customer (and of course, close the loan).")

print(" • We can understand details like property type, loan amount, credit score etc., is

the key to providing our customers great service.")

print(" • But to keep our business healthy, we also need a steady flow of new and repeat

customers coming through our door.")

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FUNCTION TO CLOSE ACCOUNT

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

def close\_account():

n=int(input("Enter the Account Number:"))

mycon=pym.connect(host='localhost',user='root',passwd='tiger',database='emi')

cur=mycon.cursor()

cur.execute('select \* from emi')

data=cur.fetchall()

for i in data:

if n==i[0]:

cur.execute("delete from emi where Acc\_No=%s"%n)

mycon.commit()

cur.execute("delete from months2 where Acc\_No=%s"%n)

mycon.commit()

print("Your Account was successfully deleted")

break

else:

print("Please Enter the Valid Account Number")

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FUNCTION TO LOGIN THE PROGRAM

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

def login():

n=int(input("Enter the Account Number:"))

mycon=pym.connect(host='localhost',user='root',passwd='tiger',database='emi')

cur=mycon.cursor()

cur.execute('select \* from emi')

data=cur.fetchall()

for i in data:

if n==i[0]:

print('\n')

print("Login Successful")

print("Total amount is:",i[5])

break

else:

print("Please Enter the Valid Account Number")

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FUNCTION TO ENQUIRY BALANCE AMOUNT

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

def balance\_enquiry():

n=int(input("Enter the Account Number:"))

mycon=pym.connect(host='localhost',user='root',passwd='tiger',database='emi')

cur=mycon.cursor()

cur.execute('select \* from emi')

data=cur.fetchall()

for i in data:

if n==i[0]:

print('\n')

print('Account Number:',i[0])

print('Name:',i[1])

print('Address:',i[2])

print('Number:',i[3])

print('Loan:',i[4])

print('\n'+'\n')

break

else:

print("Please Enter the Valid Account Number")

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FUNCTION for Interest amount

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

def Interest\_rate():

Acc\_no=int(input('Enter the account number:'))

mycon=pym.connect(host='localhost',user='root',passwd='tiger',database='emi')

cur=mycon.cursor()

cur.execute('select \* from emi')

data=cur.fetchall()

for i in data:

if i[0]==Acc\_no:

print('Succesful')

print('Total Amount with interest amount:',i[5])

print('Months:',6)

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FUNCTION TO CREATE NEW ACCOUNT

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

def New\_Account():

Acc\_no=0

mycon=pym.connect(host='localhost',user='root',passwd='tiger',database='emi')

cur=mycon.cursor()

cur.execute('select \* from emi')

data=cur.fetchall()

for i in data:

Acc\_no=i[0]

Name=input('Enter the name:')

Address=input('Enter adddress:')

Number=input('Enter valid number:')

global Loan

Loan=int(input('Enter lOAN:'))

print("Log in successfully")

print("Our interest rate is 2%")

p=Loan

r=2

a=p\*6\*r/100

x=p+a

y=0

y=x//6

print("\n\nThe Monthly installment Amount per month:",y)

st='''INSERT INTO emi(Acc\_no,Name,Address,Number,Loan,In\_amount,emi)

VALUES({},'{}','{}','{}',{},{},{})'''.format(Acc\_no+1,Name,Address,Number,Loan,x,y)

cur.execute(st)

mycon.commit()

print('your account succesfully created')

print('your account number is',Acc\_no+1)

st1='''INSERT INTO

months2(Acc\_no,Name)VALUES({},'{}')'''.format(Acc\_no+1,Name)

cur.execute(st1)

mycon.commit()

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

FUNCTION TO ENQUIRE THE NUMBER OF ACCOUNTS

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

def number\_of\_accounts(): mycon=pym.connect(host='localhost',user='root',passwd='tiger',database='emi')

cur=mycon.cursor()

cur.execute('select \* from emi')

data=cur.fetchall()

for i in data:

print('\n')

print('Account Number:',i[0])

print('Name:',i[1])

print('Address:',i[2])

print('Number:',i[3])

print('Total Amount:',i[5])

print('Interest Amount for the loan amount :',i[6])

print('\n'+'\n')

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

INTRODUCTORY FUNCTION

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

def introduction():

print("\n\n\t\t\t\t\t\t\t\tHARI OM")

print("\n\n\t\t\t\t\t\t\t\tFINANCE MANAGEMENT")

print("\n\nSCHOOL NAME:GVK Chinmaya Vidyalaya")

print("\n\t\t\t\t Kothuru(v),Indukurupeta(M),Nellore(dt)")

print("\n\n MADE BY:Someswar\n\t\tBudhaprabhas\n\t\tVijayaKrishna")

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

THE MAIN FUNCTION OF THE PROGRAM

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

introduction()

a=1

while a:

print( 3\*"\n",150\*"=")

print ('''MAIN MENU

1. About\_us

2. EMI Info

3. login

4. New Account

5. Number of accounts

6. Balance Enquiry

7. Close An Account

8. Interest Amount

9. loan Repayment

10. loan enquiry

11. Exit

''')

ch=int(input("Enter the choice(1-11): "))

if ch==1:

About\_us()

con()

elif ch==2:

emiinfo()

con()

elif ch==3:

login()

con()

elif ch==4:

New\_Account()

con()

elif ch==5:

number\_of\_accounts()

con()

elif ch==6:

balance\_enquiry()

con()

elif ch==7:

close\_account()

con()

elif ch==8:

Interest\_rate()

con()

elif ch==9:

loan\_repay()

con()

elif ch==10:

months2()

con()

elif ch==11:

print("\n\n\t\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*THE END\*\*\*\*\*\*\*\*\*\*\*\*\*")

break

else:

print("Please Enter the Right Choice"

"""\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

END OF PROJECT

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"""

OUTPUT:-

-:Our Introduction:-

|  |
| --- |
|  |

-:Main Menu:-

|  |
| --- |
|  |

-:Function About us:-

|  |
| --- |
|  |

-:Function For EMI:-

|  |
| --- |
|  |

-:Function For Login:-

|  |
| --- |
|  |

-:Function To Create an new account:-

|  |
| --- |
|  |

-:Function to verify No.of Accounts:-

|  |
| --- |
|  |

|  |
| --- |
|  |

-:Function For Balance Enquiry:-

|  |
| --- |
|  |

-:Function To Delete an Account:-

|  |
| --- |
|  |

-:Function to check amount:-

|  |
| --- |
|  |

-:Function To Repay Loan :-

|  |
| --- |
|  |

-:Function to check loan payment:-

|  |
| --- |
|  |

-:Function to END Program

|  |
| --- |
|  |

**LIMITATIONS:-**

* Before payment,first customer has to see which month he has to pay.

* The loan has to be repaid within 6 months only.
* After repayment of the entire loan only you have to close your account.
* one should remember their account number to repay their loan.

**-:Requirements:-**

* Windows 10(Operating System)
* Anaconda Navigator
* Spyder 4.0
* My SQL 8.0

-:**Bibliography:-**

* Sumita Arora (Class 12 Text book)
* www.geeksforgeeks.org

…...THANK YOU…...

…..HARI OM…..