ACKNOWLEDGEMENT

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I would also like to thank my parents and   friends who

helped me a lot in finalizing this project within the limited

time frame.

AIM AND INTRODUCTION

AIM:

To create a code for EASY ACCESBILE ONLINE INSURANCE COMPANY by using database connectivity (MySQL) with Python.

INTRODUCTION:

This project has been developed to know how a real time application works. To achieve this, Python and MySQL are used which are a powerful and simple software platforms to develop any program.

This project allows us look all kinds of insurance policies available and create an account to avail the offers. If an existing user it will create the policies on your name and it is automated to transact money from your bank directly.
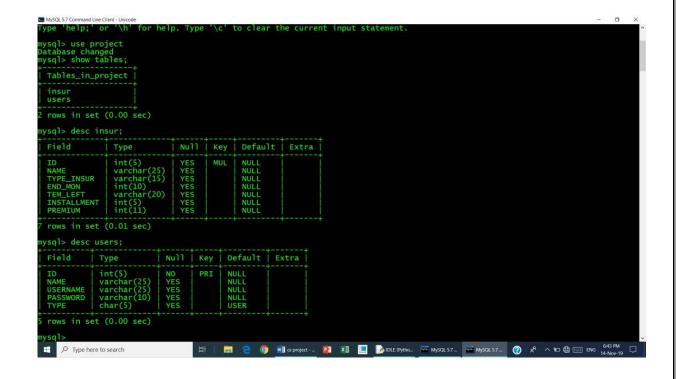
SOFTWARE AND HARDWARE APPLICATIONS

SOFTWARE:

- PYTHON
- MySQL
- WINDOWS 8

HARDWARE:

- 4 GB RAM
- STANDARD I/O DEVICES

TABLES:

FUNCTIONS:

- **about() - To Know About The Site** □ **adm_ins(),adm_use(),adm_pow()**

  - Admin use

□ **master_tbl() - Insertion of a new insurance**

- **ins() - Estimate of the users plans**
- **m_ins() - Motor insurance prompt**
- **genin() - General insurance prompt**
- **linin() - Life insurance**
- **exist() - Users insurance data**
- **main() - The main prompt insurance**
- **sgn()   - For the new user sign in**
- **dthan() - Creation of tables from python to sql**
- **login() - To login in**

- **welc()** - **Welcome prompt**
- **site()** - **Type of login**
- **captcha()** - **To create captcha**

CODE import random as rd

import mysql.connector as sql import random import time

con=sql.connect(host='localhost',user='root',password='

m

ysql')

curs=con.cursor() def

about():

   print('''

ABOUT

     THIS PROGRAMM IS WRITTEN IN
PYTHON

THIS PROGRAM IS BASICALLY DEALS WITH BUYING INSURANCE ONLINE WITH NO INSECURITY

ITS AN HIGHLY SECURE ADMIN-USER TYPE MODEL USED IN THIS PROJECT.

IN TO THE PROJECT |:::|

THERE ARE TWO TYPES OF POLICIES I HAVE CONCENTRATED ON :\\

1) General insurance

(i) Motor insurance

(a) BIKE INSURANCE

(b) AUTO INSURANCE

(ii) Home insurance

2) Life insurances

(i)Term insurance

(ii)Pension Plans

House,Life insurance are classified under 4- plans

50k,1L,1.5L,2L with tere own rate of EMI's

For Monthly,Quaterly and Annually

You can also avail your insurance using an unique id the is generated during the creation of your account .

```Remember Your ID to see your ```

Your are also given oppurtunity you to just view through the prompt

By enterning the default/guest user where you have to login as an user

''')

input("   ENter Any Keyto Exit ")   print("----------------

")

welc() def

adm_ins():

print('''

        Sir Entered the Insurance Log

1) Manuplilation records

2) Go back to last menu   3) To exit the

prompt''')   i=int(input('''

                Entered the option From above :-- '''))

print('''

'''+captcha()+''' ''')
b=input(" Enter the captcha

:-- ")   if i==3 or

b!='':

```python
    print('''

    ------------------------------
---------------''')
welc()    elif
i==2:admin_pow()
elif i== 1:
    curs.execute(" SELECT * FROM INSUR; ")
K=curs.fetchall()      for i in range(K):        for j in range(i):
print(j ,end='  ')         print()       m=int(input('''
1) Delete the users records
2) Update the records
3) To back to the prompt
4) Exit
            Enter the option
:-- '''))
    if m==1:
        M=int(input('''
            Enter the id Of the customer You want delete
: '''))
        if M==0:prinbt('''
```

```
              Admin cannot be deleted
-------------------------------------------
----
'''');admin_pow()
else:

        curs.execute("SELECT * FROM INSUR
WHERE ID=%d ;"%M)

        c=curs.fetchall()          print('''

user : ''', c[1],''' Is being Deleted''')

        curs.execute("DELETE FROM USERS WHERE
ID=%d ;"%M)

        con.commit()          print('''

Sucessfully deleted the record        -------------

------------------------------''')

adm_use()        elif m==2:

      E=int(input('''

            Entered the updating log

1) update all the records

2) specific record

3) Back to menu

                '''))

if E==3:print('''          --
```

```
----------------------------

----------------

''');admin_pow()
elif E==2:

        S=int(input('''

        Enter the Id of the user :-- '''))

        curs.execute("UPDATE TABLE INSUR SET
TER_LEFT=TER_LEFT-1 WHERE ID=%d;"%S)

con.commit()            print('''

        UPDATED RECORD SUCCESFULLY''')

adm_ins()        elif E==1:

        curs.execute("UPDATE TABLE INSUR SET
TER_LEFT=TER_LEFT-1;")

        con.commit()

print('''

        UPDATED RECORDS SUCCESFULLY''')

adm_ins()        else:

        print('''

        WRONG INPUT

            TAKING YOU TO LAST MENU

    --------------------------------------------''')
```

```
        admin_pow()
elif m==3:
print('''

    -------------------------------------------''')
admin_pow()        elif m==4:exit
else:print('''

            Getting you back to the home page

    ---------------------------------------------

        ''');welc() def
adm_use():
    print('''
        Sir Entered the Users Log
1) Manuplilation records
2) Go back to last menu                3) To exit the
    prompt''')    i=int(input('''
                Entered the option From above :--  '''))
print('''
                '''+captcha()+''' ''')
    b=input(" Enter the captcha :-- ")
    if i==3 or b!='':
print('''
```

```python
                CULPRIT

        ---------------------------------------------''')
exit
    elif i==2:admin_pow()
elif i== 1:
        curs.execute(" SELECT * FROM USERS; ")
K=curs.fetchall()        for i in K:            for j in i:
print(j ,end='  ')            print()
m=int(input('''
1) Delete the users records
2) Add the new users
3) To back to the prompt
4) Exit
                Enter the option :-- '''))
if m==1:            M=int(input('''
            Enter the id Of the customer You want delete : '''))
if M==0:prinbt('''
        Admin cannot be deleted
        -----------------------------------------''');admin_pow()
else:
```

```
        curs.execute("SELECT * FROM USERS WHERE
ID=%d ;"%M)
        c=curs.fetchall()           print('"
user : '", c[1],'" Is being Deleted'")
        curs.execute("DELETE FROM USERS WHERE
ID=%d ;"%M)
        con.commit()            print('"
Sucessfully deleted the record        -------------
----------------------------'")
adm_use()       elif m==2:
     I=input('"
        ENTER THE DETAILS
             NAME : '")
     K=input('"
           USERNAME : '")
     J=input('"
           PASSWORD : '")
     M=input('"
              TYPE :  '")
     curs.execute("SELECT ID FROM USERS;")
     L=curs.fetchall()
s=True        while s:
```

```python
        V=rd.randint(10,999)
if V != L:break
        curs.execute("INSERT INTO USERS
VALUES(%d,'%s','%s','%s','%s');"%(V,I,K,J,M))
con.commit()
        print('''
        Sucessfully added the record        -
-----------------------------------------''')
adm_use()        elif m==3:        print('''
    ----------------------------------------''')
admin_pow()        elif m==4:exit
   else:print('''
            Getting you back to the home page
   ----------------------------------------------
        ''');welc()
def admin_pow():
   print( 50 * '\n')
print('''
   Mr Sazid,
        Lets us know what you want to do from below ''')
   SD=input('''
```

```
        See existing users :-- seu

        See existing insurance holders :-- seh

        :---- ''')

    if SD=='seu':adm_use()

elif SD=='seh':adm_ins()

    else:print('''

        Enter the correct option ''');admin_pow() def
master_tbl(name,typ_ins,price,term,installm,prem):
print('''

        ----------------------------------------------

We are almost done with this so we are updating everything

So from now after every '''+str(installm)+'''th month

we will transact an amount of '''+str(prem)+'''        Use Your ID

will be used as an key to see your        plan an also how many

installments are being transcated ''')    curs.execute("SELECT
ID FROM USERS WHERE NAME='%s';"%(name))

    ide=curs.fetchall()

ide=int(ide[0][0])

    curs.execute("INSERT INTO INSUR
VALUES(%d,'%s','%s',%d,'%s',%d,%d);"%(ide,name,typ_ins,pr
ice,term,installm,prem))
```

```
    con.commit()
    print('''
        The ID given for your insurance is :-- '''+ str(ide) +'''
                You  can see  the updates through this id
    --------------------------------------------''')
welc() def
ins(name,tpin,price,term,instl,pre):
    time.sleep(2)
    ''' name  you have to pay a sum of _ money for a term of _
years and  '''
    print('''
    So Mr/Mrs  '''+name+''' ,
                After analyzing the data we have your plans ready
You have to pay a premeium of Rs.'''+ str(pre)+'''
for every '''+str(instl)+'''th month of an year
for '''+term+'''years
------------------------------------
******************************************************_
--------------------------------------------''')
if name=='GUEST':
    print('''  You have Entered as an default user
```

```python
                    Therefore you are restricted to this window
only

                        Now taking you to the main window
            ---------------------------------------------''')
welc()    xs=input('''
        Do you want to avail this offer then TYPE ``1``
                    TO see Other plans  TYPE ``0``
If you type anything else we will take you directly to the main
window

                                        ANSWER :== ''')
    if xs=='1':
        master_tbl(name,tpin,price,term,instl,pre)
elif xs=='0':
        m_ins(name,tpin)
else:
        print('''
        WRONG INPUT
            Taking you Directly To the main Window
                        Told   You!!!
-----------------------------------------------''')
i=0 def m_ins(na,typ):    global i    if typ in
('bike-gen','auto-gen'):
```

```python
        P=int(input('''
    Enter the price of vehicle
            ``Enter only Numbers``  :- '''))
else:       i+=1
        P=int(input('''
1) 50,000
2) 1,00,000
3) 1,50,000
4) 2,00,000
            Enter the plan:- '''))
if P==1:P=50000        elif
P==2:P=100000        elif
P==3:P=150000        elif
P==4:P=200000        elif
i==3:print('''
            TOO MANY INVALID INPUTS
                EXITING''');exit
else :print('''
        INVALID INPUT TRY AGAIN ''');m_ins()
   O=input('''
    Enter the term of the plan
```

```
                ``Enter only Numbers``  :-  ''')
    I=input('''
    Enter the premeium type
            Quaterly---qyt
            Halferly ---hyt
            Annually---ayt
                    NOW :- ''')
qyt,hyt,ayt=4,2,12                if
I=='qyt':
        pre=(int(P)/int(O))/4;ins(na,typ,P,O,qyt,pre)     elif
I=='hyt':pre=(int(P)/int(O))/2;ins(na,typ,P,O,hyt,pre)
elif I=='ayt':pre=(int(P)/int(O))/1;ins(na,typ,P,O,ayt,pre)
else :
        print('''
            You have done some  mistake
                    ```` Taking you to the home page ```
                    For security Reasons
------------------------------------------''')
welc() def genin(nam):
    ZS=input('''
OK Mr/Mrs   '''+nam+''',
```

```python
    The available insurances plans are
1) Motor insurance
2) Home insurance
            Enter the option :-  ''')
if ZS=='1':

    R=int(input('''
1) Automobile  insurance
2) Bike insurane
            Enter a option :- '''))
    if  R==1  :E='auto-gen';m_ins(nam,E)
elif      R==2:E='bike-gen';m_ins(nam,E)
else :
        print('''
        You have done some  mistake
                ```` Taking you to the home page ```
                    For security Reasons     -
-------------------------------------------''')
welc()
  elif ZS=='2':E='Hous-gen';m_ins(nam,E)
else:print('''
        You have done some  mistake
```

```python
                    ```` Taking you to the home page ```
                        For security Reasons     -
----------------------------------------------'''); welc()

def liin(nam):    ZS=input('''
OK Mr/Mrs   '''+nam+''',
    The available insurances plans are
1) Term insurance
2) Pensions insurance
            Enter the option :-  ''')
if ZS=='1':
     E='term-lif';m_ins(nam,E)     elif
ZS=='2':E='peio-gen';m_ins(nam,E)
else:print('''
        You have done some  mistake
                    ```` Taking you to the home page ```
                        For security Reasons     -
----------------------------------------------'''); welc() def
exist(name):    o=int(input('''
    Enter your unique id :-- '''))
   curs.execute("SELECT * FROM INSUR WHERE
ID=%d;"%o)
```

```python
    R=curs.fetchall()
if R==[]:
        print('''

    Either you donot have any registered insurance plans
OR

    You have entered the your wrong
id''')          main(name)    else:

    print(''''

    The below given are your records''')        lk=['ID :-
','Name :- ','Type :- ','Total money :- ','Term Left
:- ','Total installmanets :- ','Premeium :- ']
for i in R :

        k=0            for
j in i:
print(lk[k],j)
k+=1
main(name) def
main(name):
    print('''

    ---------------------------------------------''')
print('''
```

Welcome Mr/Mrs   "'+name+'",

TYPE OF INSURANCES AVALABLE

1) General insurance

(i) Motor insurance

(ii) Home insurance

2) Life insurances

(i)Term insurance

(ii)Pension Plans

3) See your existing insurance files

4) exit

"')

Q=input("'

Enter the type of insurance you want to prefer

``example  1  ---General  insurance``

ENTER NOW :- "')   if '1'in Q: genin(name)

elif '2'in Q:liin(name)   elif Q=='3':exist(name)

elif Q=='4':   print("'

Exiting the promt Safely

```
        ''')
exit    else:
print('''

    The Entered option is incorrect
                    ``` GOING BACK TO LAST MENU ```
  ----------------------------------------------''')
login() def sgn():
  print('''
1) To make a new account _/
2) Go back To last Menu  _/
    ''')
  a=int(input('''
    Enter the option :~  '''))
if a==2:
    print('''
    -------------------------------------------''')
site()    elif a==1:
    na=input('''
    Enter your name :- ''')
us=input('''
    Enter the User name :- ''')
```

```python
        che=captcha()
        ps=input('''
        Enter the Password :- ''')
if len(ps)>8 and len(ps)<11:
            print(''' Please enter a password between 8 to 10
characters  ''')
            sgn()
print('''

'''+che+''')
cf=input('''
        Enter the captcha  :- ''')
time.sleep(2)        if
cf!=che :          print('''
        The Entered captcha is incorrect

                        ```  THE PROCESS WILL START
AGAIN ```

        ----------------------------------------''')
sgn()        else:
            curs.execute("SELECT ID FROM USERS ;")
            iw=curs.fetchall()
            while True:
```

```python
        a=random.randint(1002,9999)
if a in iw:               continue
else:break

        curs.execute("INSERT INTO USERS
VALUES(%d,'%s','%s','%s','USER');"%(a,na,us,ps))
con.commit()

        print('''

    IMPORTANT

        YOUR UNIQUE ID IS ---- ''',a,''' --- REMEMBER
THIS''')        input("enter any key ")

        print('''

    The process is completed SUCCESFUL

            NOW YOU ARE A PART OF OUR COMMUNITY

                    ``` TAKING YOU TO THE HOME
PAGE
```

    --''')
welc() def dthan():
  curs.execute("DROP DATABASE IF EXISTS PROJECT;")
curs.execute("CREATE DATABASE PROJECT;")
curs.execute("USE PROJECT;")
  curs.execute("CREATE TABLE USERS(ID INT(5)
PRIMARY KEY ,NAME VARCHAR(25),USERNAME
```

```
VARCHAR(25) ,PASSWORD VARCHAR(10),TYPE
CHAR(5) DEFAULT 'USER');")
curs.execute("INSERT INTO USERS
VALUES(000,'SAZID','ADMin','ADM','ADMIN');")

curs.execute("INSERT INTO USERS

VALUES(1001,'GUEST','Guest','JUST','USER');")
curs.execute("CREATE TABLE INSUR(ID INT(5),NAME
VARCHAR(25),TYPE_INSUR VARCHAR(15),END_MON
INT(10),TEM_LEFT VARCHAR(20),INSTALLMENT
INT(5),PREMIUM INT);")   curs.execute("ALTER TABLE
INSUR ADD FOREIGN KEY
(ID) REFERENCES USERS(ID);")
    con.commit() def
login():
    A=input('''

 Enter the user name :~ ''')
    curs.execute("SELECT * FROM USERS;")
x=curs.fetchall()   for i in x: if i[2]==A:

        x=i
break   else:
        print('''
        The Entered Username is incorrect

                    ``` GOING BACK TO LAST MENU ```
```

```
                      ------------------------------------------------''')
site()
    B=input('''

  Enter the password :~  ''')
while  True:                          if
x[3]==B:
          break
else:
          print('''

    The Entered Password is incorrect

                          ```  GONING BACK TO LAST MENU ```

    ---------------------------------------------''')
site()
    che=captcha()
    print('''

          '''+che+'''   ''')
    C=input('''

  Enter the captcha :~  ''')
if C!=che:
      print('''

      The Entered captcha is incorrect
```

```
                    ```  GOING BACK TO LAST MENU ```

    ----------------------------------------------''')

site()    if x[-1]=='ADMIN':

    SD=input('''

    WELCOME MR SAZID ,

            WOULD YOU LIKE TO GO IN TO THE
WEBSITE(as USER)

                            OR

                        TAKE UP AS AN ADMIN
''')

    if SD in ['ADMIN','ADM','admin','adm','min']:

        admin_pow()

main(name=x[1])

def site():    print('''

------------------------

--------------------

            ``Insuring Lives of India''

                ```Welcomes You```

        1) login

        3)New User _/

        4) Go Back _/
```

```python
``` We can let you enter as an guest into website but there are restrictions init .```
``So make a new users as Possible```
  ##username='Guest'##
###password='JUST'###
   ''')
   Z=int(input("Enter the option :- "))
if Z==1 :login()    elif Z==3:sgn()
elif Z==4 :        print("""

   -------------------------------------------""")
welc()    else:
      print("""""
      The entered option is incorrect
                  Please enter the corrcet option!!!!!!!
-------------------------------------------""")
site() def welc(i=1):    print("""
             `` Welcome to the  ``
         ``` Insuring  lives  of  india  ```
        `` The no.1 Insurance site in  india ``
      """)
print("""
```

```
1) Enter the site  _/
2) About _/
        3)Exit the site  _/""")
Y=int(input("Enter the opt :-  "))
if Y==1:site()    elif Y==2:about()
elif Y==3:exit    elif i>3:
print('''

    We Are exitng the site
                TOLD YOU!!!!''')

    exit
else:
    print('''
Wrong input please enter the correct one
            OR the site will exit automatically
    -----------------------------------------------            ''')
i+=1       welc(i) def captcha():
   Al=[ chr(i) for i in range(65,91)]
al=[ chr(i) for i in range(97,123)]     nu=[
str(i) for i in range(10)]
sp=['!','@','#','$','%','^','&','*','>','<','?','|']
captcha=''    for i in range(6):
```

```
a=rd.choice([Al,al,nu,sp])
b=rd.choice(a)        captcha+=b      return
captcha dthan() welc()
```

```
------------------------------------------------

Welcome Mr/Mrs   strange,
    TYPE OF INSURANCES AVALABLE
    1) General insurance
        (i)  Motor insurance
        (ii) Home insurance
     2) Life insurances
         (i)Term insurance
         (ii)Pension Plans
    3) See your existing insurance files
    4) exit


    Enter the type of insurance you want to prefer
            `example 1 ---General insurance`
                        ENTER NOW :-  1


OK Mr/Mrs   strange,
    The available insurances plans are
    1) Motor insurance
    2) Home insurance
            Enter the option :-  1
```

```
                        ENTER NOW :-  1

OK Mr/Mrs   strange,
    The available insurances plans are
    1) Motor insurance
    2) Home insurance
            Enter the option :-  1


    1) Automobile  insurance
    2) Bike insurane
             Enter a option :- 1

    Enter the price of vehicle
            `Enter only Numbers` :- 20000


Enter the term of the plan
        `Enter only Numbers` :-  10


Enter the premeium type
        Quaterly---qyt
        Halferly ---hyt
        Annually---ayt
                NOW :- qyt
```

So Mr/Mrs strange ,

    After analyzing the data we have your plans ready

    You have to pay a premeium of Rs.500.0

    for every 4th month of an year

    for 10years

--***************************************--

    Do you want to avail this offer then TYPE ``1``

    TO see Other plans TYPE ``0``

If you type anything else we will take you directly to the main window

    ANSWER :== 1

We are almost done with this so we are updating everything

    So from now after every 4th month

    we will transact an amount of 500.0

    Use Your ID will be used as an key to see your

    plan an also how many installments are being transcated

    The ID given for your insurance is :-- 6770

    You can see the updates through this id

    ----

    1) General insurance

    (i) Motor insurance

    (ii) Home insurance

    2) Life insurances

    (i)Term insurance

    (ii)Pension Plans

    3) See your existing insurance files

    4) exit

    Enter the type of insurance you want to prefer

    ``example 1 ---General insurance``

    ENTER NOW :- 3

    Enter your unique id :-- 6770

'

    The below given are your records

ID :- 6770

Name :- strange

Type :- auto-gen

Total money :- 20000

Term Left :- 10

Total installmanets :- 4

Premeium :- 500

```
*Python 3.6.6 Shell*                                                              —  □  ×
File  Edit  Shell  Debug  Options  Window  Help
         ------------------------------------------------

Welcome Mr/Mrs   strange,
   TYPE OF INSURANCES AVALABLE
   1) General insurance
      (i)  Motor insurance
      (ii) Home insurance
    2) Life insurances
       (i)Term insurance
       (ii)Pension Plans
   3) See your existing insurance files
   4) exit


      Enter the type of insurance you want to prefer
            `example 1 ---General insurance`
                              ENTER NOW :-  2


OK Mr/Mrs   strange,
   The available insurances plans are
   1) Term insurance
   2) Pensions insurance
            Enter the option :-  2
                                                                          Ln: 284  Col: 0
```

```
*Python 3.6.6 Shell*                                                              —  □  ×
File  Edit  Shell  Debug  Options  Window  Help
OK Mr/Mrs   strange,
   The available insurances plans are
   1) Term insurance
   2) Pensions insurance
            Enter the option :-  2


         1) 50,000
         2) 1,00,000
         3) 1,50,000
         4) 2,00,000
            Enter the plan:- 4

Enter the term of the plan
         `Enter only Numbers` :-  8

Enter the premeium type
         Quaterly---qyt
         Halferly ---hyt
         Annually---ayt
                NOW :- hyt

So Mr/Mrs  strange ,
         After analyzing the data we have your plans ready
            You have to pay a premeium of Rs.12500.0
                                                                          Ln: 295  Col: 83
```

```
        Enter the type of insurance you want to prefer
            `example 1 ---General insurance`
                        ENTER NOW :-  3

        Enter your unique id :-- 6770

        The below given are your records
ID :-  6770
Name :-  strange
Type :-  auto-gen
Total money :-  20000
Term Left :-  10
Total installmanets :-  4
Premeium :-  500
ID :-  6770
Name :-  strange
Type :-  peio-gen
Total money :-  200000
Term Left :-  8
Total installmanets :-  2
Premeium :-  12500


        --------------------------------------------
```

```
        --------------------------------------------

                    ABOUT

                    --------

    THIS PROGRAMM IS WRITTEN IN PYTHON
        THIS PROGRAM IS BASICALLY DEALS WITH BUYING INSURANCE ONLINE WITH NO INSECURITY
        ITS AN HIGHLY SECURE ADMIN-USER TYPE MODEL USED IN THIS PROJECT.


IN TO THE PROJECT |:::|
    THERE ARE TWO TYPES OF POLICIES I HAVE CONCENTRATED ON :\
 1) General insurance
    (i)  Motor insurance
        (a) BIKE INSURANCE
        (b) AUTO INSURANCE
    (ii) Home insurance
 2) Life insurances
    (i)Term insurance
    (ii)Pension Plans
        House,Life  insurance are classified under 4- plans
            50k,1L,1.5L,2L with tere own rate of EMI's
            For Monthly,Quaterly and Annually


        You can also avail your insurance using an unique id the is generated during the creation of your account .
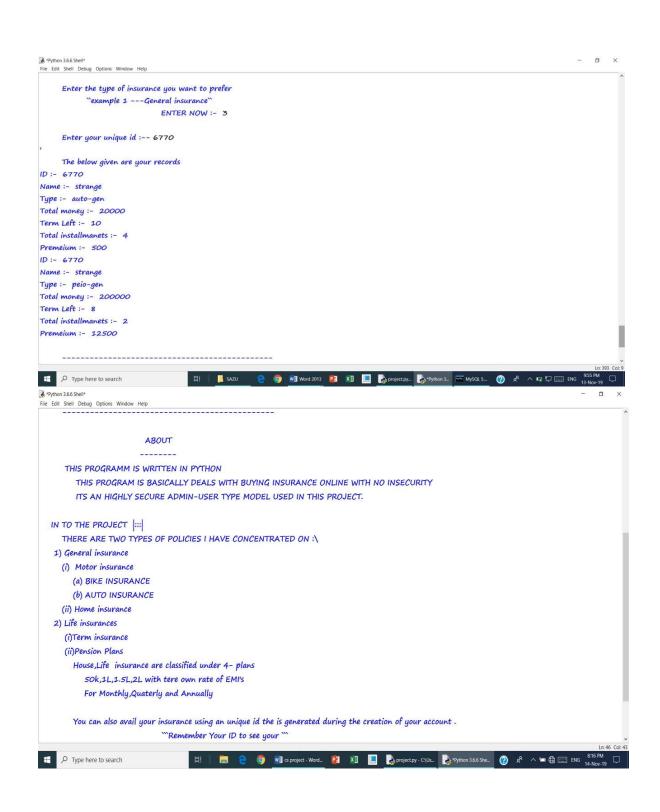                ```Remember Your ID to see your ```
```

BIBLIOGRAPHY

I have gone through the following to complete my project:

- **Class 12 *Computer Science with python* Textbook by Dr Sumita Arora**

Thank you