KENDRIYA VIDYALAYA No.1 UPPAL, HYDERABAD



Subject : **COMPUTER SCIENCE**

[CS]

Project Title : INSURANCE MAKER

Submitted by : **SAZID ALI**

Class : XII "A"

AISSCE No. :

KENDRIYA VIDYALAYA No.1 UPPAL



DEPARTMENT OF COMPUTER SCIENCE

Certificate

This is to certify that **SAZID ALI**, a student of class XII has successfully completed the project Programming for **INSURANCE MAKER** under the guidance of Mrs. **CH.KIRANKUMARI PGT (C.S)** during the year 2019-20 in partial fulfilment of computer science practical examination conducted by AISSCE.

Date:		
Internal Examiner	External Examiner	Principal

INDEX

Sl. No.	Title	Page No.	Sign
1	Acknowledgement	3	
2	Aim and Introduction	4	
3	Software and Hardware Applications	5	
4	Code	9	
5	Output	19	
6	Bibliography	27	

ACKNOWLEDGEMENT

I would like to express my special thanks of gratitude to my Teacher Mrs. CH KIRAN KUMARI PGT(C.S) as well as our Principal Mr. P SRINIVASA RAJU who gave me the golden opportunity to do this wonderful project on "INSURANCE MAKER". This helped me in doing a lot of Research and I came to know about many new things. I am really thankful to them.

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

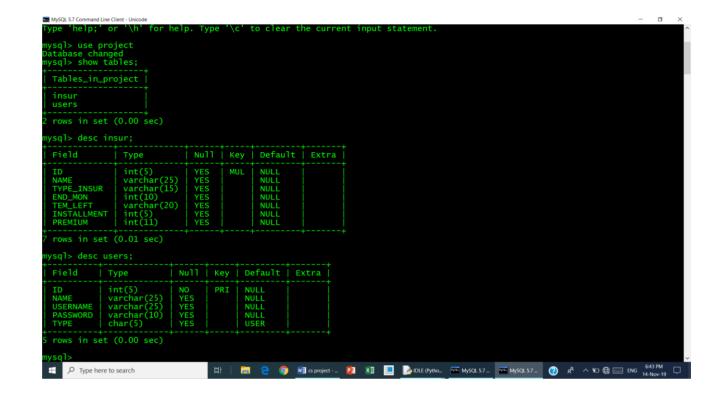
SOFTWARE:

- 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
<pre>con=sql.connect(host='localhost',user='root',password='m ysql')</pre>
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!=":
 print("
 ----''')
 welc()
 elif i==2:admin_pow()
 elifi==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(""
 CULPRIT
 -----''')
 exit
elif i==2:admin_pow()
elifi== 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: "')
```

Page 16 of 44

```
J=input("
 PASSWORD: "')
 M=input("
 TYPE: "')
 curs.execute("SELECT ID FROM USERS;")
 L=curs.fetchall()
 s=True
 while s:
 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
```

Page 17 of 44

```
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
 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'):
 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+"',
 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
 "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)
 R=curs.fetchall()
 if R==[]:
 print("
 Either you donot have any registered insurance plans
 Page 25 of 44
```

```
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 :- "")
```

```
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:
        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:
```

Page 31 of 44

```
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("
                      Page 33 of 44
```

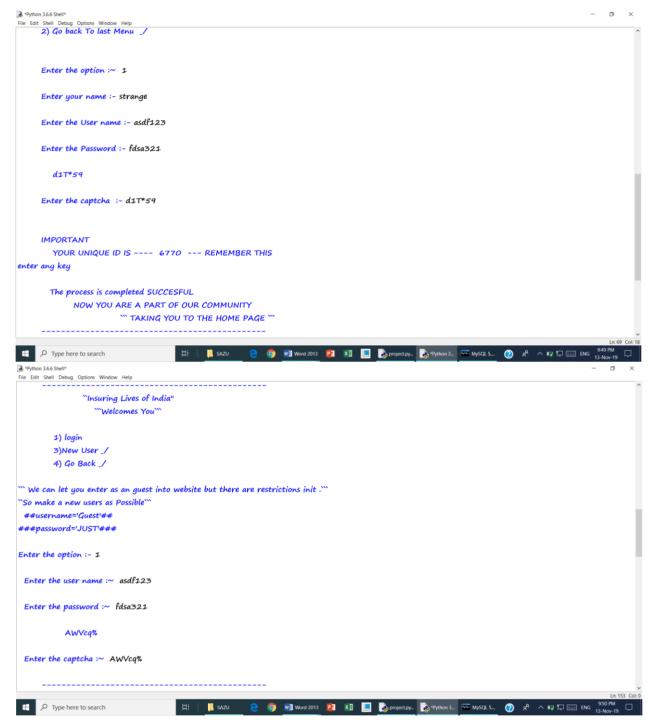
```
"Insuring Lives of India"
               ""Welcomes You"
       1) login
       3)New User _/
       4) Go Back _/
"We can let you enter as an guest into website but there are
restrictions init.
"So make a new users as Possible"
 ##username='Guest'##
###password='JUST'###
  "")
  Z=int(input("Enter the option :- "))
  if Z==1 :login()
  elif Z==3:sgn()
  elif Z==4:
    print("""
    welc()
  else:
    print(""""
    The entered option is incorrect
```

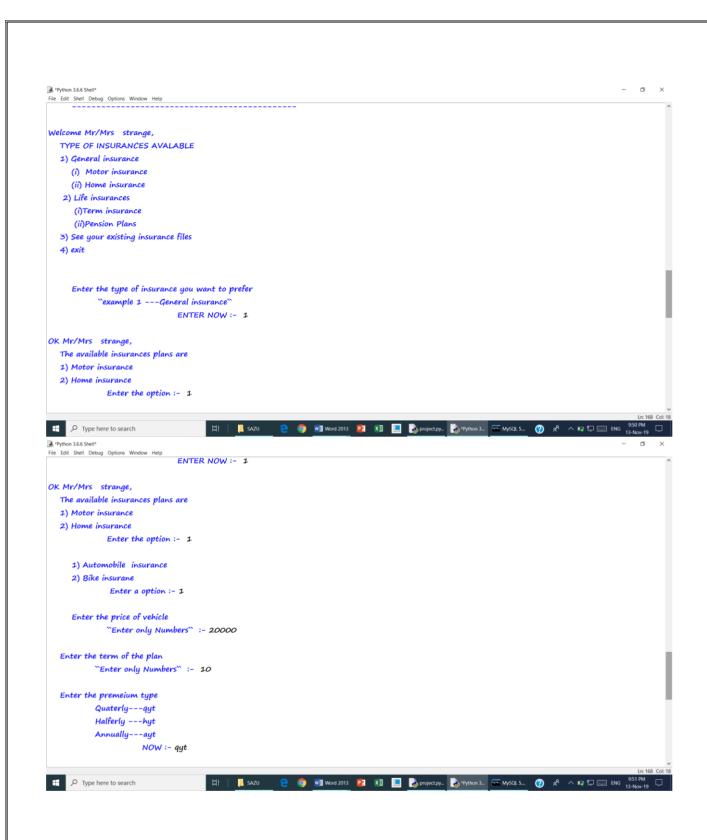
Page 34 of 44

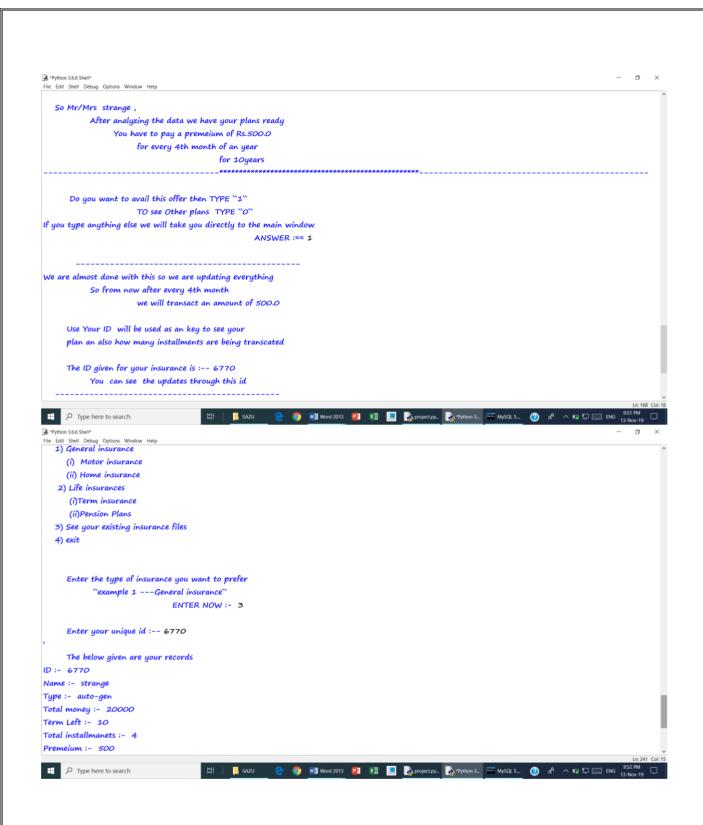
```
Please enter the corrcet option!!!!!!!
     site()
def welc(i=1):
  print("""
           `` Welcome to the ``
        "Insuring lives of india ""
      `` The no.1 Insurance site in india ``
      """)
  print("""
      1) Enter the site _/
      2) About _/
      3)Exit the site _/""")
  Y=int(input("Enter 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!!!!")
```

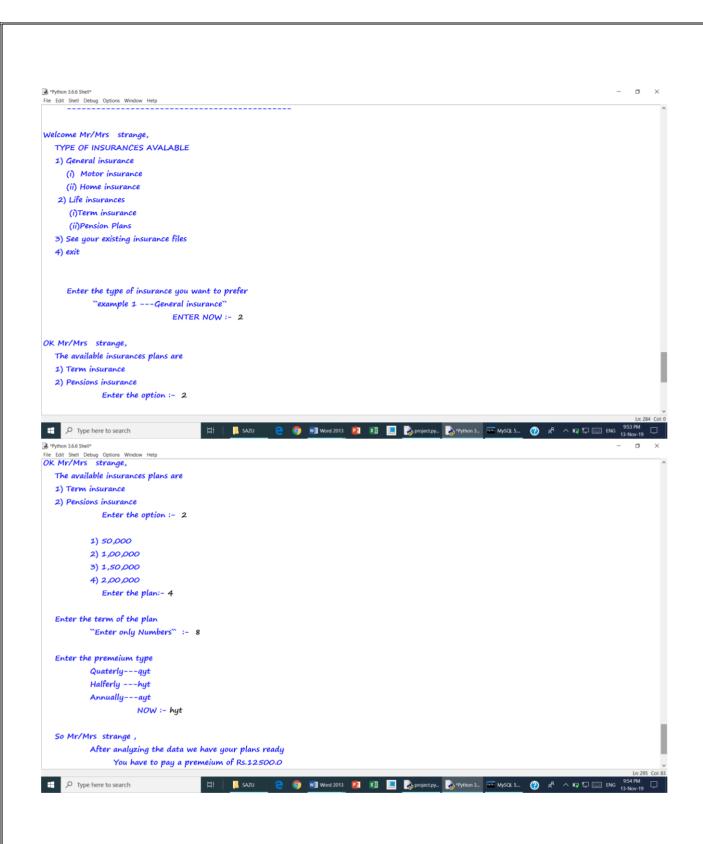
```
exit
  else:
     print("
Wrong input please enter the correct one
             OR the site will exit automatically
     i+=1
     welc(i)
def captcha():
  Al=[chr(i) for i in range(65,91)]
  al=[chr(i) for i in range(97,123)]
  nu=[ str(i) for i in range(10)]
  sp=['!','@','#','$','%','^','&','*','>','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

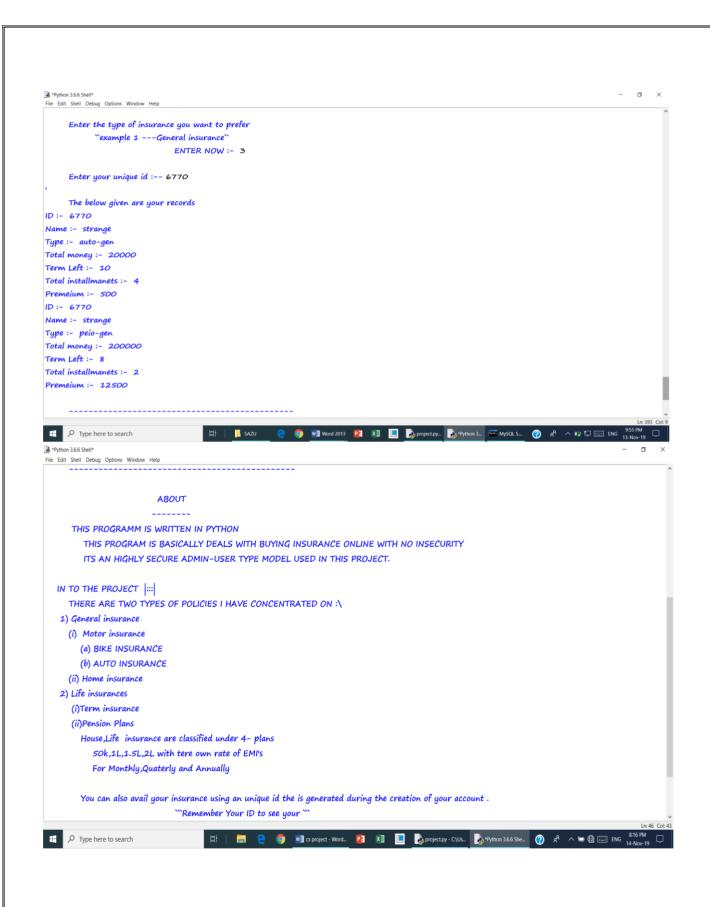
<u>OUTPUT</u>











BIBLIOGRAPHY

I have gone through the following to complete my project:

• Class 12 Computer Science with python Textbook by Dr Sumita Arora

