## MAHARISHI VIDYA MANDIR SENIOR SECONDARY SCHOOL POLACHERY

## COMPUTER SCIENCE PROJECT

## EMPLOYEE MANAGEMENT SYSTEM

NAME : S.MUGUNTHAN

CLASS : XII-A1

YEAR : 2020-2021

ROLL NUMBER :

S.No.	TITLE
1	BONAFIDE CERTIFICATE
2	ACKNOWLEDGEMENT
3	INTRODUCTION
4	PROBLEM DEFINITION
5	PROBLEM ANALYSIS
6	HARDWARE AND SOFTWARE REQUIREMENTS
7	FUTURE ENHANCEMENT
8	SOURCE CODE
9	OUTPUT
10	BIBLIOGRAPHY

## **BONAFIDE CERTIFICATE**

Certified to be the bonafide record of the Project work done by Master **S.MUGUNTHAN** of class **XII** – **A1** in **MAHARISHI VIDYA MANDIR SENIOR SECONDARY SCHOOL**, Polachery, Chennai 600 127 during the Year **2020-2021**.

		india senio by CBSE, New		CERTIFICATE
	SCHOOL, Po	olachery, Chennai		ANDIR SENIOR e candidate bearing
DATE		INTERNA	L EXAMINER	
PRINCIPAL		EXTERNA	L EXAMINER	

**SEAL** 

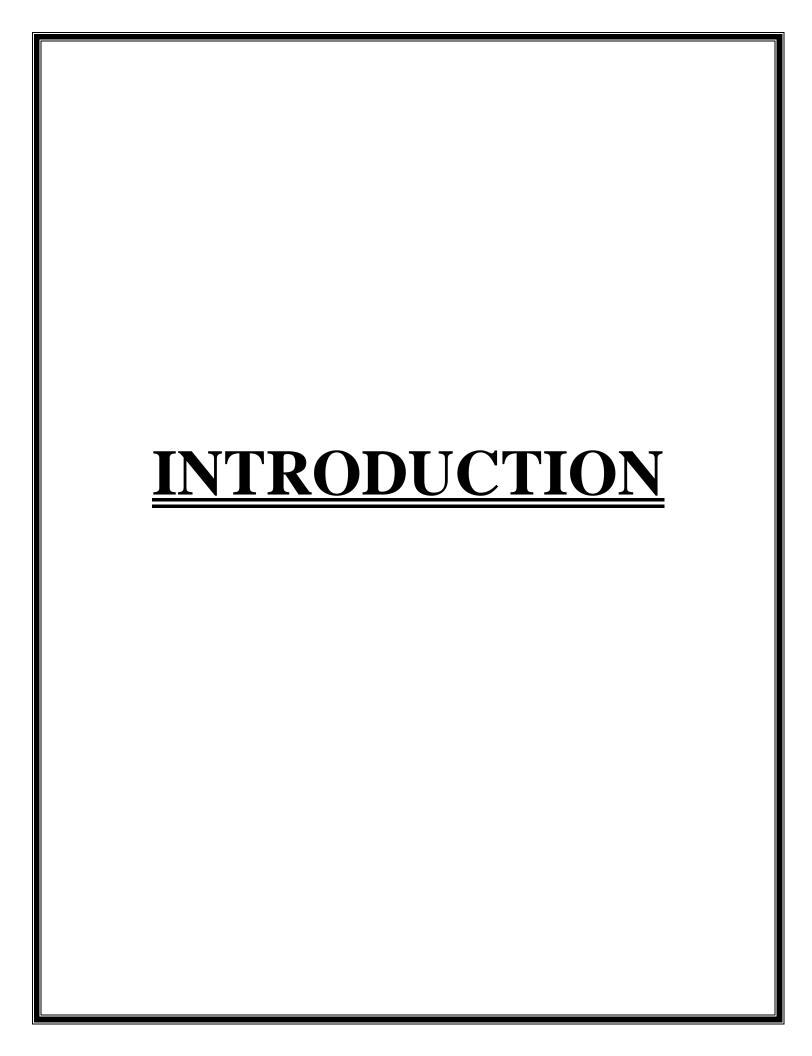
## **ACKNOWLEDGEMENT**

We wish to express our deep gratitude and sincere thanks to our Principal Ma'am Mrs. M.U.Parimala Amudhan and Associate Principal Mrs. Sujatha Kasukela and our management, for their encouragement and for all the facilities they provided for this project.

We extend our hearty thanks to Mrs.B.Radhika, Computer Science Teacher, who guided us to the successful completion of the project. We take this wonderful opportunity to express our deep sense of gratitude for her invaluable guidance, constant encouragement, constructive comments, sympathetic attitude and immense motivation which has sustained our efforts at all stages of this project work.

We would also like to thank our parents, for their blessings and the idea they gave us on creating this program, without them anything wouldn't have been possible.

We intently thank god for the blessings he showered on us so as to create this program.

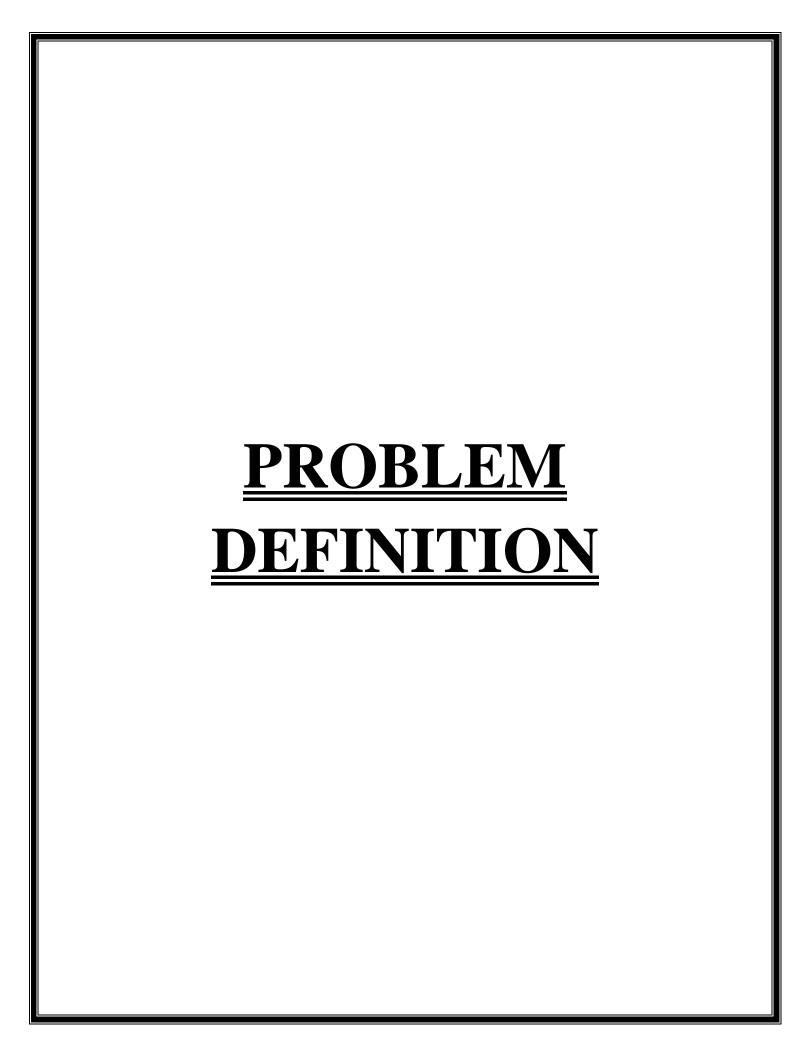


Employee Management System Project is an GUI application that stores all the employee's information in a database. It is an application developed in Python GUI technology and database used is MYSQL.

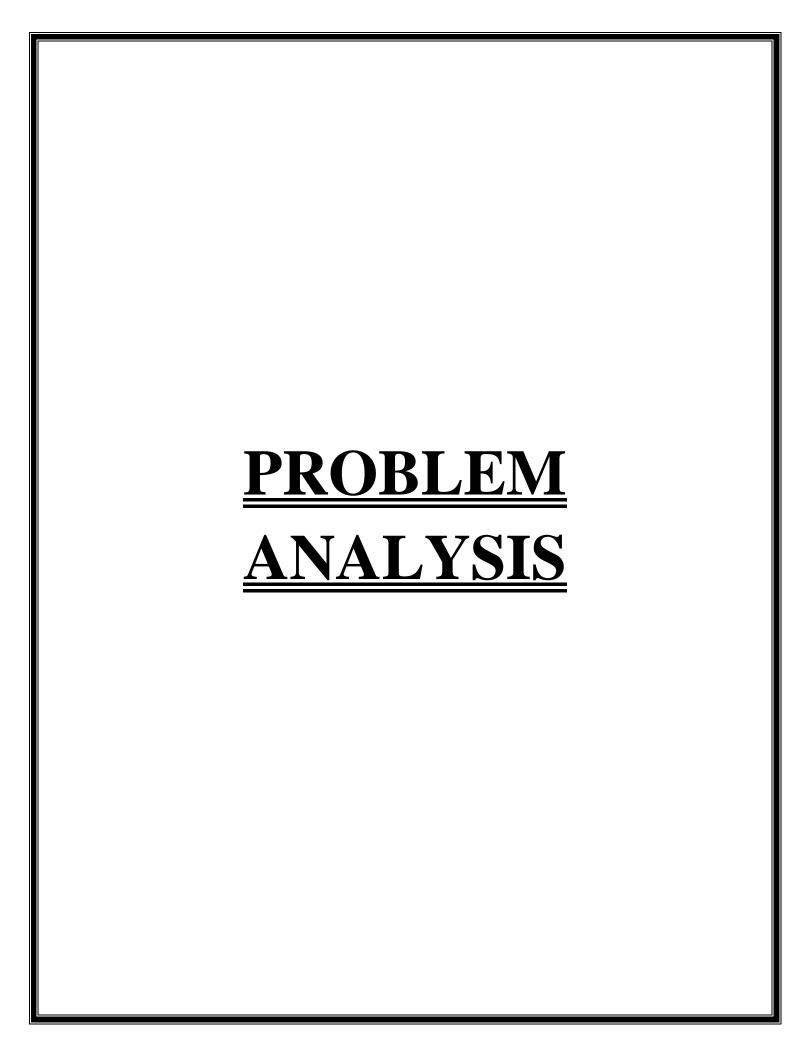
Earlier systems were manual where there was no way of properly storing information. Employee records were stored manually which lead to errors. There was no proper way of tracking employee records. It was very difficult and required a lot of paperwork which makes the application time consuming and not secured.

This proposed system reduces the dependency on the manual system which could create errors. This system can easily help in tracking employee records. There is a search feature which allows getting records of a specific employee. There is an administrator which can add, edit, delete and save records in a database. It is an easy to use application and has a user-friendly interface. It is totally built at the administrative end which means that only the admin has access rights to add or change or modify any records.

The main aim of developing this application was to reduce the errors that occur in the manual system. One can search the details easily by just entering employee id. In earlier systems, there was not such a facility to do so. All the details are stored in an MYSQL database. It is easy to update any employee details. All the employee records are integrated and so this makes it user-friendly and easy to use application. It even stores who has logged in , logged in time and logout time in SQL. This is done using Tkinter and PIL module of Python.



The aim of our Python project is to make Employee Management System organized and computerized to add ,delete, update and view the details of employee and store login time and logout time along with login system such that only administrators can access it using Python GUI and MYSQL database.



System analysis is the process of gathering and interpreting facts, diagnosing problem and using the information to recommended improvements to the system.

Our computerized EMPLOYEE MANAGEMENT SYSTEM is a python menudriven GUI program which consists of different modules such as

- ➤ Login part:
  - o To allow only administrators to access the data.
- ➤ Main part:
  - To create the new data

To add the details of new employee into the system.

To update the data

To change the incorrect data given during creation of data using employee number.

- To view the data of single employee and all employee
   To view details of individual person by using his employee
  - number or just employee number, name and designation of all employees.
- o To delete the data

To remove the details of individual person from all the records in the system using his employee number.

The proposed system is economically feasible because the project has been developed with the existing software and hardware.

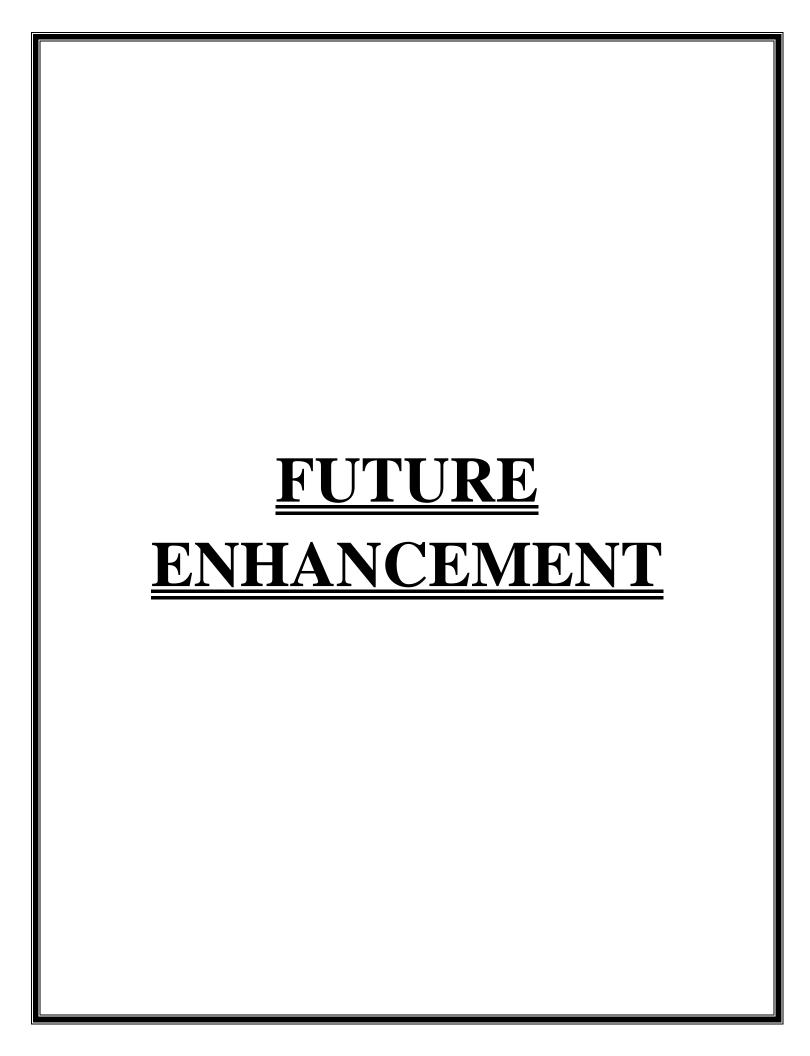
# HARDWARE AND SOFTWARE REQUIREMENTS

## **HARDWARE REQUIREMENTS:-**

- Mouse
- **♣** Monitor
- **♣** CPU
- 1. MEMORY SPACE 1 TB
- 2. PROCESSOR Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz 1.80 GHz
- 3. RAM 12.0 GB
- **UPS**
- Keyboard

## **SOFTWARE REQUIREMENTS:-**

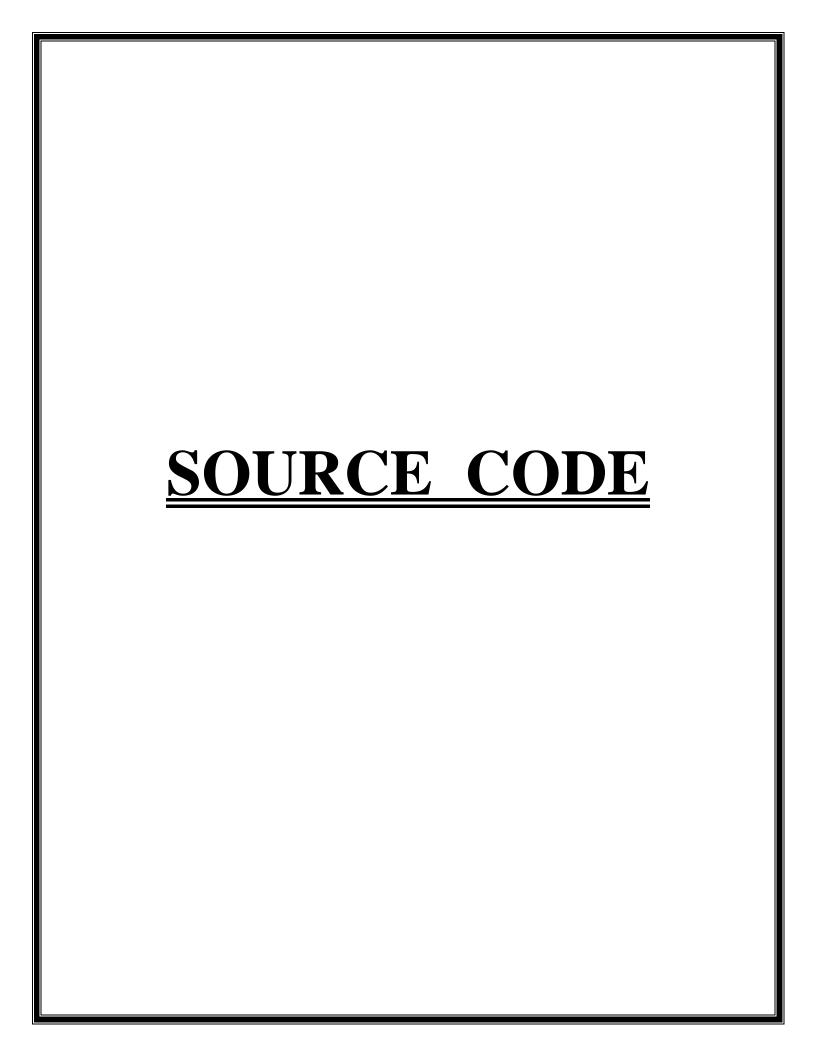
- **♣** OPERATING SYSTEM WINDOWS 10
- **♣** DEVELOPING LANGUAGE PYTHON 3.0
- **♣** DATABASE MYSQL



The project has a very vast scope in future. Project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of expansion.

The following are the future scope for the project:-

- ♣ Individual employee login to view their details alone.
- Lettering details along with photo of employee.
- **♣** Operating GUI application using voice command.
- **♣** Employee attendance can be included.
- ♣ To add few more personal details during creation.



```
from tkinter import *
from tkinter import messagebox
from PIL import Image, ImageTk
import mysql.connector as m
def store():
  c=m.connect(host='localhost',user='root',password='2003',database='em')
  o=c.cursor()
  o.execute('select * from details')
  ed=o.fetchall()
  global 1
  1={}
  for i in range(len(ed)):
    l[ed[i][0]]=ed[i][1]
  c.close()
def main1():
  store()
  main=Toplevel()
  main.title('Employee Management')
  main.maxsize(300,330)
  main.minsize(300,330)
  main.protocol ('WM_DELETE_WINDOW', (lambda: 'pass') ())
  login.protocol ('WM_DELETE_WINDOW', (lambda: 'pass') ())
  i=Image.open("C:\\Users\\Mugunthan\\n.jpg")
  i1=i.resize((300,330))
  i2=ImageTk.PhotoImage(i1)
  bi=Label(main,image=i2)
  bi.pack()
  I=Image.open("C:\\Users\\Mugunthan\\logo.jpg")
  I1=I.resize((100,100))
  I2=ImageTk.PhotoImage(I1)
  logo=Label(main,image=I2)
  logo.place(x=100,y=10)
```

```
head=Label(main,text='DAILY DAY NEWSPAPERS',font = "Helvetica 15"
bold underline italic",fg='violet red')
  head.place(x=20,y=120)
  def ph_num(c,wh):
                         #validating phone number.
    a=c.isdigit()
    b=len(wh) <= 10
    return a and b
  ph_vad=main.register(ph_num)
  def salary(c):
                    #validating salary
    return c.isdigit()
  sal_vad=main.register(salary)
  def create():
    crwin=Toplevel()
    crwin.title('CREATE DETAILS')
    crwin.maxsize(800,330)
    crwin.minsize(800,330)
    crwin.configure(background='pale turquoise')
    det=Label(crwin,text='Enter the details.',fg='dark green',bg='palevioletred1')
    det.place(x=350,y=10)
    name=Label(crwin,text='Name',fg='red')
                                              #NAME
    name.place(x=20,y=50)
    def name_check(i):
       for j in namee.get():
         if j.isalpha() or j==' ' or j=='.':
            pass
         else:
            messagebox.showinfo('INFORMATION','Only alphabets,space and
dot is allowed.')
            namee.delete(0,'end')
            break
    namee=Entry(crwin,width=35)
    namee.bind("<FocusOut>",name_check)
```

```
namee.place(x=150,y=50)
    dob=Label(crwin,text='Date of Birth',fg='red') #DATE OF BIRTH
    dob.place(x=20,y=80)
    day=Spinbox(crwin,from_=1,to=31,width=5)
    day.place(x=150,y=80)
    month=Spinbox(crwin,from_=1,to=12,width=5)
    month.place(x=200,y=80)
    year=Spinbox(crwin,from_=1950,to=2020,width=5)
    year.place(x=250,y=80)
    gen=Label(crwin,text='Gender',fg='red') #GENDER
    gen.place(x=20,y=110)
    var = IntVar()
    M= Radiobutton(crwin,text="Male",variable=var,value=1,fg='chocolate3')
    M.place(x=150,y=110)
    F= Radiobutton(crwin,text="Female",variable=var,value=2,fg='chocolate3')
    F.place(x=150,y=140)
    fn=Label(crwin,text='Father name',fg='red') #FATHER NAME
    fn.place(x=20,y=170)
    def f_name_check(i):
      for j in fne.get():
         if j.isalpha() or j==' ' or j=='.':
           pass
         else:
           messagebox.showinfo('INFORMATION','Only alphabets,space and
dot is allowed.')
           fne.delete(0,'end')
           break
    fne=Entry(crwin,width=35)
    fne.bind("<FocusOut>",f_name_check)
    fne.place(x=150,y=170)
    mn=Label(crwin,text='Mother name',fg='red') #MOTHER NAME
```

```
mn.place(x=20,y=200)
    def m_name_check(i):
       for j in mne.get():
         if j.isalpha() or j==' ' or j=='.':
           pass
         else:
           messagebox.showinfo('INFORMATION','Only alphabets,space and
dot is allowed.')
           mne.delete(0,'end')
           break
    mne=Entry(crwin,width=35)
    mne.bind("<FocusOut>",m_name_check)
    mne.place(x=150,y=200)
    pn=Label(crwin,text='Phone number',fg='red') #PHONE NUMBER
    pn.place(x=410,y=50)
                    #phone number check
    def do_p(i):
       if pne.get()!=":
         if len(pne.get())!=10:
           pne.delete(0,'end')
           messagebox.showinfo('INFORMATION', 'You entered less than 10
digits for phone number.')
pne=Entry(crwin,width=20,validate="all",validatecommand=(ph_vad,'%S','%P'))
    pne.bind("<FocusOut>", do_p)
    pne.place(x=550,y=50)
    em=Label(crwin,text='Email ID',fg='red') #E-MAIL ID
    em.place(x=410,y=80)
    eme=Entry(crwin,width=35)
    eme.place(x=550,y=80)
    ad=Label(crwin,text='Address',fg='red') #ADDRESS
    ad.place(x=410,y=110)
    ade=Entry(crwin,width=35)
```

```
ade.place(x=550,y=110)
    doj=Label(crwin,text='Date of Joining',fg='red') #DATE OF JOINING
    doj.place(x=410,y=140)
    day1=Spinbox(crwin,from_=1,to=31,width=5)
    day1.place(x=550,y=140)
    month1=Spinbox(crwin,from_=1,to=12,width=5)
    month1.place(x=600,y=140)
    year1=Spinbox(crwin,from_=1950,to=2020,width=5)
    year1.place(x=650,y=140)
    de=Label(crwin,text='Designation code',fg='red') #DESIGNATION
    de.place(x=410,y=170)
    dee=Spinbox(crwin,from_=1,to=12,width=7)
    dee.place(x=550,y=170)
    def cr():
       crw=Toplevel()
       crw.title(' ')
       crw.maxsize(300,300)
       crw.minsize(300,300)
       h=Label(crw,text='Code with their designation.',fg='sienna4')
       h.place(x=30,y=10)
       desn=['Publisher', 'Editor in chief', 'Managing Director', 'Assistant Managing
Director',
         'audio/visual production specalist', 'News Editor', 'Sub Editor',
         'Photo Editor', 'Reporter', 'Video Grapher', 'Lawyer', 'Worker in printing
section']
       y1 = 30
       for i in range(1,13):
         st=str(i)+'-'+desn[i-1]
         pri=Label(crw,text=st,fg='dark violet')
         pri.place(x=20,y=y1)
         y1 + = 20
       crw.mainloop()
```

```
dcr=Button(crwin,text='Code
reference',command=cr,bg='khaki1',fg='maroon')
     dcr.place(x=630,y=165)
     sa=Label(crwin,text='Salary',fg='red') #SALARY
     sa.place(x=410,y=200)
     def do_s(i):
                     #salary check
       if sae.get()!=":
         if int(sae.get())<10000:
            sae.delete(0,'end')
            messagebox.showinfo('INFORMATION', 'You entered less than
minimum salary(Rs.10000).')
     sae=Entry(crwin,width=25,validate="key", validatecommand=(sal_vad,'%S'))
     sae.bind("<FocusOut>", do_s)
     sae.place(x=550,y=200)
     def sc():
       store()
       global empno
       empno="
       dv={'1':'PB','2':'EC','3':'MD','4':'AM','5':'PS','6':'NE',
         '7':'SE','8':'PE','9':'RE','10':'VG','11':'LW','12':'PW'}
       global na
       na=namee.get()
       db=year.get()+'-'+month.get()+'-'+day.get()
       g=var.get()
       if g==1:
         g1='Male'
       elif g==2:
         g1='Female'
       else:
          g1="
       fa=fne.get()
       mo=mne.get()
       ema=eme.get()
       add=ade.get()
```

```
dj=year1.get()+'-'+month1.get()+'-'+day1.get()
       dc=dee.get()
       empno+=dv[dc]
       emp=empno
       for i in range(1,10000):
         empno+=str(i)
         if empno not in 1:
            break
         else:
            empno=emp
       c=m.connect(host='localhost',user='root',password='2003',database='em')
       o=c.cursor()
       q="insert into details values(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)"
       o.execute('select * from details')
       ed=o.fetchall()
       cond= g1!=" and namee.get()!=" and fne.get()!=" and mne.get()!=" and
pne.get()!=" and eme.get()!=" and ade.get()!=" and sae.get()!="
       def check(q,cond):
         if cond:
            decision= messagebox.askquestion ('Yes or No','Are you sure you
want to add the data?')
            if decision=='yes':
              d=(empno,na,db,g1,fa,mo,pne.get(),ema,add,dj,dc,sae.get())
              o.execute(q,d)
              messagebox.showinfo('INFORMATION','Data added.\nThe
employee Number of {n} is {e}.'.format(n=na,e=empno))
            l=[namee,fne,mne,pne,eme,ade,sae]
            for j in 1:
              i.delete(0,'end')
         else:
            messagebox.showinfo('INFORMATION','Some of details not filled.')
       check(q,cond)
       c.commit()
       c.close()
```

```
sub=Button(crwin,text='CREATE',command=sc,fg='dark
green',bg='khaki',width=7)
    sub.place(x=350,y=250)
    def ebc():
       crwin.destroy()
     eb=Button(crwin,text='EXIT',command=ebc,fg='dark
green',bg='khaki',width=7)
    eb.place(x=350,y=290)
    crwin.mainloop()
  createbutton=Button(main,text='CREATE
DETAILS',command=create,bg='olivedrab1',fg='mediumorchid4',width=15,height
=1)
  createbutton.place(x=30,y=170)
  def update():
    upwin=Toplevel()
    upwin.title('UPDATE DETAILS')
     upwin.maxsize(300,330)
     upwin.minsize(300,330)
    upwin.configure(background='aquamarine2')
    text=Label(upwin,text='Employee number:',fg='slateblue1')
    text.place(x=20,y=20)
    ene=Entry(upwin,width=20)
    ene.place(x=150,y=20)
    text1=Label(upwin,text='Select columns.',fg='slateblue1')
     text1.place(x=20,y=50)
    li = Listbox(upwin, selectmode = "multiple",height=11)
    li.place(x=150,y=50)
    lic=['Name','Date of birth','Gender','Father Name','Mother Name','Phone
Number'.
       'Email Id', 'Address', 'Date of joining', 'Designation', 'Salary']
    for i in range(len(lic)):
```

```
li.insert(i+1,lic[i])
     store()
    def uc():
       inp=ene.get()
       global se
       se=li.curselection()
       if inp==":
         messagebox.showinfo('INFORMATION','Employee number is empty.')
       elif inp not in 1:
         messagebox.showinfo('INFORMATION','Data with this employee
number({e}) does not exist.'.format(e=inp))
       elif se==():
         messagebox.showinfo('INFORMATION','No columns selected.')
       elif len(se)>5:
         messagebox.showinfo('INFORMATION','Can update only 5 columns at
a time.')
       else:
         ene.delete(0,'end')
         uw=Toplevel()
         uw.title('UPDATE')
         uw.maxsize(400,250)
         uw.minsize(400,250)
         uw.configure(background='pale green')
         y1 = 20
         if 0 in se:
            uname=Label(uw,text='Name',fg='red')
            uname.place(x=20,y=y1)
            def uname_check(i):
              for j in unamee.get():
                 if j.isalpha() or j==' ' or j=='.':
                   pass
                 else:
                   messagebox.showinfo('INFORMATION','Only
alphabets, space and dot is allowed.')
```

```
break
           unamee=Entry(uw,width=35)
           unamee.bind("<FocusOut>",uname_check)
           unamee.place(x=150,y=y1)
           y1 + = 30
         if 1 in se:
           udob=Label(uw,text='Date of Birth',fg='red')
           udob.place(x=20,y=y1)
           uday=Spinbox(uw,from_=1,to=31,width=5)
           uday.place(x=150,y=y1)
           umonth=Spinbox(uw,from_=1,to=12,width=5)
           umonth.place(x=200,y=y1)
           uyear=Spinbox(uw,from_=1950,to=2020,width=5)
           uyear.place(x=250,y=y1)
           y1 + = 30
         if 2 in se:
           ugen=Label(uw,text='Gender',fg='red')
           ugen.place(x=20,y=y1)
           var = IntVar()
           uM =
Radiobutton(uw,text="Male",variable=var,value=1,fg='chocolate3')
           uM.place(x=150,y=y1)
           y1 + = 30
           uF =
Radiobutton(uw,text="Female",variable=var,value=2,fg='chocolate3')
           uF.place(x=150,y=y1)
           y1+=30
         if 3 in se:
           ufn=Label(uw,text='Father name',fg='red')
           ufn.place(x=20,y=y1)
           def f_upd_name_check(i):
```

unamee.delete(0,'end')

```
for j in ufne.get():
                 if j.isalpha() or j==' ' or j=='.':
                 else:
                   messagebox.showinfo('INFORMATION','Only
alphabets, space and dot is allowed.')
                   ufne.delete(0,'end')
                   break
            ufne=Entry(uw,width=35)
            ufne.bind("<FocusOut>",f_upd_name_check)
            ufne.place(x=150,y=y1)
            y1 + = 30
         if 4 in se:
            umn=Label(uw,text='Mother name',fg='red')
            umn.place(x=20,y=y1)
            def m_upd_name_check(i):
              for j in umne.get():
                 if j.isalpha() or j==' ' or j=='.':
                   pass
                 else:
                   messagebox.showinfo('INFORMATION','Only
alphabets, space and dot is allowed.')
                   umne.delete(0,'end')
                   break
            umne=Entry(uw,width=35)
            umne.bind("<FocusOut>",m_upd_name_check)
            umne.place(x=150,y=y1)
            y1 + = 30
         if 5 in se:
            upn=Label(uw,text='Phone number',fg='red')
            upn.place(x=20,y=y1)
                            #phone number check
            def do_p(i):
              if upne.get()!=":
```

```
if len(upne.get())!=10:
                  upne.delete(0,'end')
                  messagebox.showinfo(",'You entered less than 10 digits for
phone number.')
upne=Entry(uw,width=20,validate="all",validatecommand=(ph_vad,'%S','%P'))
           upne.bind("<FocusOut>", do_p)
           upne.place(x=150,y=y1)
           y1+=30
         if 6 in se:
           uem=Label(uw,text='Email ID',fg='red')
           uem.place(x=20,y=y1)
           ueme=Entry(uw,width=35)
           ueme.place(x=150,y=y1)
           y1 + = 30
         if 7 in se:
           uad=Label(uw,text='Address',fg='red')
           uad.place(x=20,y=y1)
           uade=Entry(uw,width=35)
           uade.place(x=150,y=y1)
           y1+=30
         if 8 in se:
           udoj=Label(uw,text='Date of Joining',fg='red')
           udoj.place(x=20,y=y1)
           uday1=Spinbox(uw,from_=1,to=31,width=5)
           uday1.place(x=150,y=y1)
           umonth1=Spinbox(uw,from_=1,to=12,width=5)
           umonth1.place(x=200,y=y1)
           uyear1=Spinbox(uw,from_=1950,to=2020,width=5)
           uyear1.place(x=250,y=y1)
           y1 + = 30
```

```
if 9 in se:
            ude=Label(uw,text='Designation code',fg='red')
            ude.place(x=20,y=y1)
            udee=Spinbox(uw,from_=1,to=12,width=7)
            udee.place(x=150,y=y1)
            y1 + = 30
         if 10 in se:
            usa=Label(uw,text='Salary',fg='red')
            usa.place(x=20,y=y1)
            def do_s(i):
                            #salary check
              if usae.get()!=":
                 if int(usae.get())<10000:
                   usae.delete(0,'end')
                   messagebox.showinfo(",'You entered less than minimum
salary(Rs.10000).')
            usae=Entry(uw,width=25,validate="key",
validatecommand=(sal_vad,'%S'))
            usae.bind("<FocusOut>", do_s)
            usae.place(x=150,y=y1)
            y1 + = 30
         def up_c():
            upda=()
            error=[]
            if 0 in se:
              una=unamee.get()
              if una!=":
                 upda+=(una,)
              else:
                 error+=['Name']
            if 1 in se:
              udb=uyear.get()+'-'+umonth.get()+'-'+uday.get()
              upda+=(udb,)
            if 2 in se:
```

```
ug=var.get()
  if ug==1:
     ug1='Male'
     upda += (ug1,)
  elif ug==2:
     ug1='Female'
     upda = (ug1,)
  else:
    error+=['Gender']
if 3 in se:
  ufa=ufne.get()
  if ufa!=":
     upda+=(ufa,)
  else:
    error+=['Father Name']
if 4 in se:
  umo=umne.get()
  if umo!=":
    upda+=(umo,)
  else:
    error+=['Mother Name']
if 5 in se:
  upn=upne.get()
  if upn!=":
     upda+=(upn,)
  else:
    error+=['Phone Number']
if 6 in se:
  uema=ueme.get()
  if uema!=":
     upda+=(uema,)
  else:
    error+=['Email ID']
if 7 in se:
  uadd=uade.get()
```

```
if uadd!=":
                  upda+=(uadd,)
               else:
                  error+=['Address']
            if 8 in se:
               udj=uyear1.get()+'-'+umonth1.get()+'-'+uday1.get()
               upda+=(udj,)
            if 9 in se:
               udc=udee.get()
               upda+=(udc,)
            if 10 in se:
               us=usae.get()
               if us!=":
                  upda+=(us,)
               else:
                  error+=['Salary']
c=m.connect(host='localhost',user='root',password='2003',database='em')
            o=c.cursor()
            q='update details set '
            ori={0:'name',1:'dob',2:'gender',3:'father',4:'mother',5:'phone',
                6:'email',7:'Address',8:'doj',9:'desigco',10:'salary'}
            for i in range(len(se)):
               q+=ori[se[i]]+'=%s'
               if i<len(se)-1:
                 q+=','
               if i==len(se)-1:
                 q+=' where empno=%s'
            upda+=(inp.upper(),)
            def ucheck(q,upda):
               decision= messagebox.askquestion ('Yes or No','Is all data to be
updated is correct?')
               if decision=='yes':
                  uw.destroy()
                  o.execute(q,upda)
```

```
c.commit()
                messagebox.showinfo('INFORMATION','Data updated')
           if len(se) = len(upda)-1:
              ucheck(q,upda)
           else:
              s='Check the following.\n'
              for i in range(len(error)):
                s += str(i+1)+'. '+error[i]+' n'
              messagebox.showinfo('INFORMATION',s)
           c.close()
         ub=Button(uw,text='UPDATE',fg='black',command=up_c)
         ub.place(x=150,y=y1)
         uw.mainloop()
probu=Button(upwin,text='Proceed',command=uc,fg='black',bg='coral1',width=10,
height=2)
    probu.place(x=110,y=250)
    def ebc():
       upwin.destroy()
    ebu=Button(upwin,text='Exit',command=ebc,fg='black',bg='coral1',width=10)
    ebu.place(x=110,y=300)
    upwin.mainloop()
  updatebutton=Button(main,text='UPDATE
DETAILS',command=update,bg='olivedrab1',fg='mediumorchid4',width=15,height
=1)
  updatebutton.place(x=160,y=200)
  def delete():
    dewin=Toplevel()
    dewin.title('DELETE DETAILS')
    dewin.maxsize(300,210)
    dewin.minsize(300,210)
    dewin.configure(background='khaki1')
```

```
store()
     text=Label(dewin,text='Employee number',bg='khaki1',fg='red',font =
"Helvetica 13 bold italic")
    text.place(x=90,y=30)
    empe=Entry(dewin,width=40)
     empe.place(x=30,y=70)
    def dc():
       inp=empe.get()
       if inp==":
         messagebox.showinfo('INFORMATION','Entry box is empty.')
       elif inp not in 1:
         messagebox.showinfo('INFORMATION', 'Employee number( {a} ) does
not exist.'.format(a=inp))
       else:
         decision= messagebox.askquestion ('Yes or No','Are you sure you want
to delete the data of %s(%s)?'%(l[inp],inp))
         if decision=='yes':
c=m.connect(host='localhost',user='root',password='2003',database='em')
            o=c.cursor()
            o.execute('delete from details where empno=%s',(inp,))
            c.commit()
            c.close()
            empe.delete(0,'end')
subb=Button(dewin,text='Delete',width=10,height=2,command=dc,bg='black',fg='
gold')
    subb.place(x=110,y=120)
    def ex():
       dewin.destroy()
    exb=Button(dewin,text='Exit',width=10,command=ex,bg='black',fg='gold')
     exb.place(x=110,y=170)
    dewin.mainloop()
```

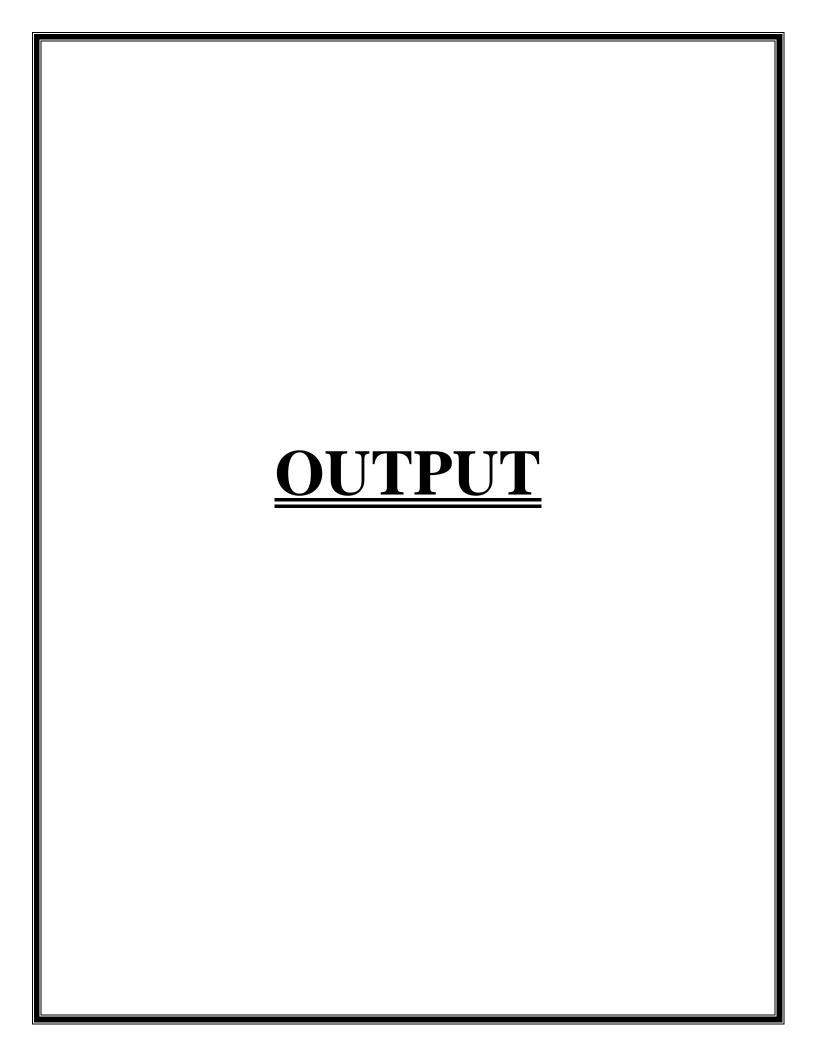
```
deletebutton=Button(main,text='DELETE
DETAILS',command=delete,bg='olivedrab1',fg='mediumorchid4',width=15,height
=1)
  deletebutton.place(x=160,y=260)
  def view():
    viewwin=Toplevel()
    viewwin.title('VIEW DETAILS')
     viewwin.maxsize(300,250)
    viewwin.minsize(300,250)
    viewwin.configure(background='pale green')
    text=Label(viewwin,text='Enter the Employee number',bg='pale
green',fg='red',font = "Helvetica 13 bold italic")
    text.place(x=40,y=30)
    empe=Entry(viewwin,width=40)
     empe.place(x=30,y=80)
     def sc():
       if empe.get()==":
         messagebox.showinfo('INFORMATION','Entry box is empty.')
       else:
         c=m.connect(host='localhost',user='root',password='2003',database='em')
         o=c.cursor()
         q='select * from details where empno=%s'
         inp=empe.get()
         d=(inp,)
         o.execute(q,d)
         data=o.fetchall()
         c.close()
         empe.delete(0,'end')
         if len(data)!=0:
            vtl=Toplevel()
            vtl.title(' ')
            vtl.maxsize(500,330)
            vtl.minsize(500,330)
```

```
vtl.configure(background='light salmon')
             t=Label(vtl,text='\nDetails',fg='black',bg='light salmon',font =
"Helvetica 13 bold italic")
             t.pack()
             l=['Employee Number
                                       : ','Name\t\t
                                                        : ','Date of birth\t
               'Gender\t\t
                              : ','Father Name\t
               'Mother Name\t
                                   : ','Phone Number\t
                               : ','Address\t\t
                                                  : ','Date of joining\t
               'Email Id\t\t
                                 : ','Salary\t\t
              'Designation\t
                                                  : Rs.']
             de={'1':'Publisher','2':'Editor in chief','3':'Managing
Director', '4': 'Assistant Managing Director',
               '5':'audio/visual production specalist', '6':'News Editor', '7':'Sub
Editor'.
               '8':'Photo Editor', '9':'Reporter', '10':'Video Grapher', '11':'Lawyer',
               '12':'Worker in printing section'}
             y1 = 50
            for h in range(len(l)):
               if h==10:
                  da1=l[h]+de[str(data[0][h])]+'\n'
               else:
                  da1=l[h]+str(data[0][h])+'\n'
               dp=Label(vtl,text=da1,fg='midnight blue',bg='light salmon')
               dp.place(x=10,y=y1)
               v1 + = 20
            def eb():
               vtl.destroy()
exb=Button(vtl,text='Exit',width=10,command=eb,bg='black',fg='gold')
             exb.place(x=230,y=300)
             vtl.mainloop()
          else:
             messagebox.showinfo('INFORMATION', 'This Employee number( {e}
) does not exist.'.format(e=inp))
```

```
subb=Button(viewwin,text='Submit',width=10,height=2,command=sc,bg='black',f
g='gold')
     subb.place(x=110,y=120)
     def vawc():
       vaw=Toplevel()
       vaw.title('ALL DETAILS')
       vaw.maxsize(400,300)
       vaw.minsize(400,300)
       vaw.configure(background='khaki1')
       de={'1': Publisher', '2': 'Editor in chief', '3': 'Managing Director', '4': 'Assistant
Managing Director',
       '5': 'audio/visual production specalist', '6': 'News Editor', '7': 'Sub Editor',
       '8':'Photo Editor', '9':'Reporter', '10':'Video Grapher', '11':'Lawyer',
       '12':'Worker in printing section'}
       c=m.connect(host='localhost',user='root',password='2003',database='em')
       o=c.cursor()
       q='select empno,name,desigco from details'
       o.execute(q)
       data=o.fetchall()
       v1 = 20
       if len(data) == 0:
          messagebox.showinfo('INFORMATION','No data exist.')
       else:
          for i in range(len(data)):
            s=str(i+1)+'. '+data[i][0]+' >> '+data[i][1]+' >> '+de[data[i][2]]
            text=Label(vaw,text=s,bg='khaki1',fg='royalblue4')
            text.place(x=20,y=y1)
            y1 + = 20
       c.close()
       def eb():
          vaw.destroy()
       exb=Button(vaw,text='Exit',width=10,command=eb,bg='black',fg='gold')
       exb.place(x=180,y=270)
       vaw.mainloop()
```

```
vawb=Button(viewwin,text='All
Details', width=10, height=2, command=vawc, bg='black', fg='gold')
     vawb.place(x=110,y=170)
     def eb():
       viewwin.destroy()
     exb=Button(viewwin,text='Exit',width=10,command=eb,bg='black',fg='gold')
    exb.place(x=110,y=220)
    viewwin.mainloop()
  viewbutton=Button(main,text='VIEW
DETAILS',command=view,bg='olivedrab1',fg='mediumorchid4',width=15,height=
1)
  viewbutton.place(x=30,y=230)
  def ex():
    c=m.connect(host='localhost',user='root',password='2003',database='em')
    o=c.cursor()
    q='update log_de set lo_outime=curtime() where lo_outime is null'
     o.execute('update log_de set lo_outime=curtime() where lo_outime is null')
     c.commit()
    c.close()
    main.destroy()
    login.destroy()
exitbutton=Button(main,text='LOGOUT',command=ex,bg='olivedrab1',fg='mediu
morchid4',width=15,height=1)
  exitbutton.place(x=30,y=290)
  main.mainloop()
login=Tk()
login.title('Login')
login.maxsize(300,120)
login.minsize(300,120)
login.configure(background='khaki1')
lo_id=Label(login,text='Login ID',bg='khaki1',fg='red')
lo_id.place(x=20,y=20)
```

```
lo_e=Entry(login,width=25)
lo_e.place(x=120,y=20)
pwd=Label(login,text='Password',bg='khaki1',fg='red')
pwd.place(x=20,y=50)
pw_e=Entry(login,width=25,show='*')
pw_e.place(x=120,y=50)
def lo_c():
  global log
  log=lo_e.get()
  password=pw_e.get()
  if lo_e.get()==":
    if pw_e.get()==":
       messagebox.showinfo('INFORMATION','Login Id and Password is
empty.')
     else:
       messagebox.showinfo('INFORMATION','Login Id is empty.')
  elif pw_e.get()==":
    messagebox.showinfo('INFORMATION', 'Password is empty.')
  else:
    c=m.connect(host='localhost',user='root',password='2003',database='em')
     o=c.cursor()
    o.execute('select * from login')
    ed=o.fetchall()
    t=(log,password)
    if t in ed:
       to_d=[lo_id,lo_e,pwd,pw_e,lo_bu]
       for i in to_d:
         i.destroy()
       ou=Label(login,text='You have logged in.',bg='khaki1',fg='red',font =
"bold")
       ou.place(x=30,y=30)
       login.iconify()
       q='insert into
log_de(log_id,lo_date,lo_intime)values(%s,curdate(),curtime())'
       o.execute(q,(log,))
```



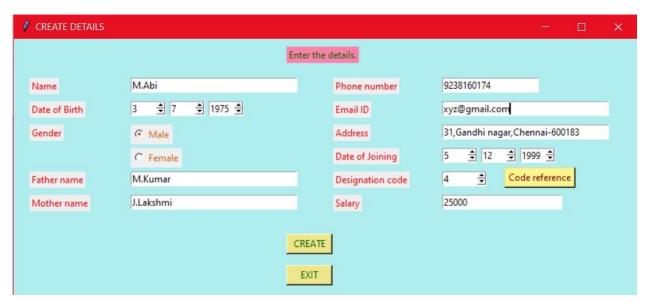


**LOGIN SCREEN** 

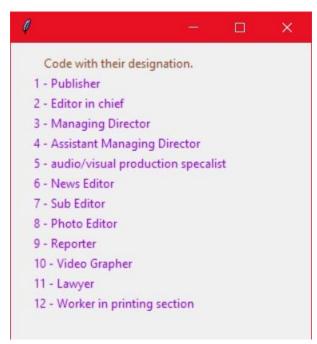


**MAIN SCREEN** 





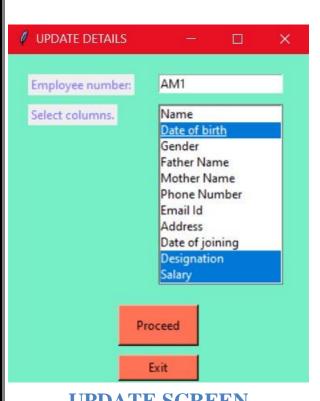
### CREATE IS PRESSED IN MAIN SCREEN



CODE REFERENCE WINDOW



AUTO GENERATED EMPLOYEE NUMBER



**∅** UPDATE ‡ 1975 
‡ 3 **‡** 4 Date of Birth 2 Designation code 30000 Salary UPDATE WINDOW TO ENTER DATA TO BE

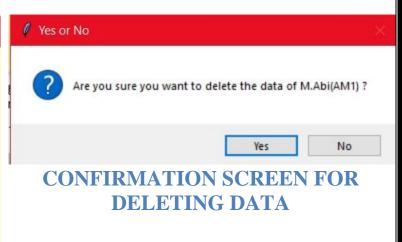
**UPDATED** 

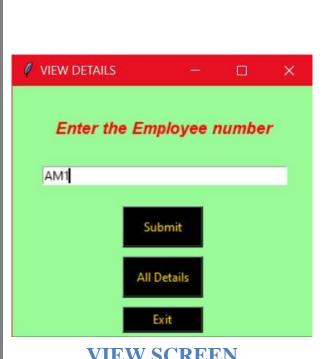
**UPDATE SCREEN** 





**DELETE SCREEN** 

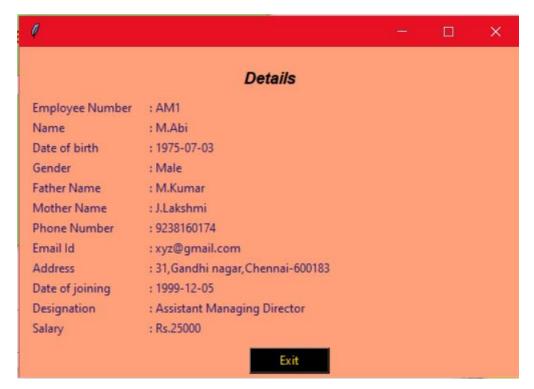




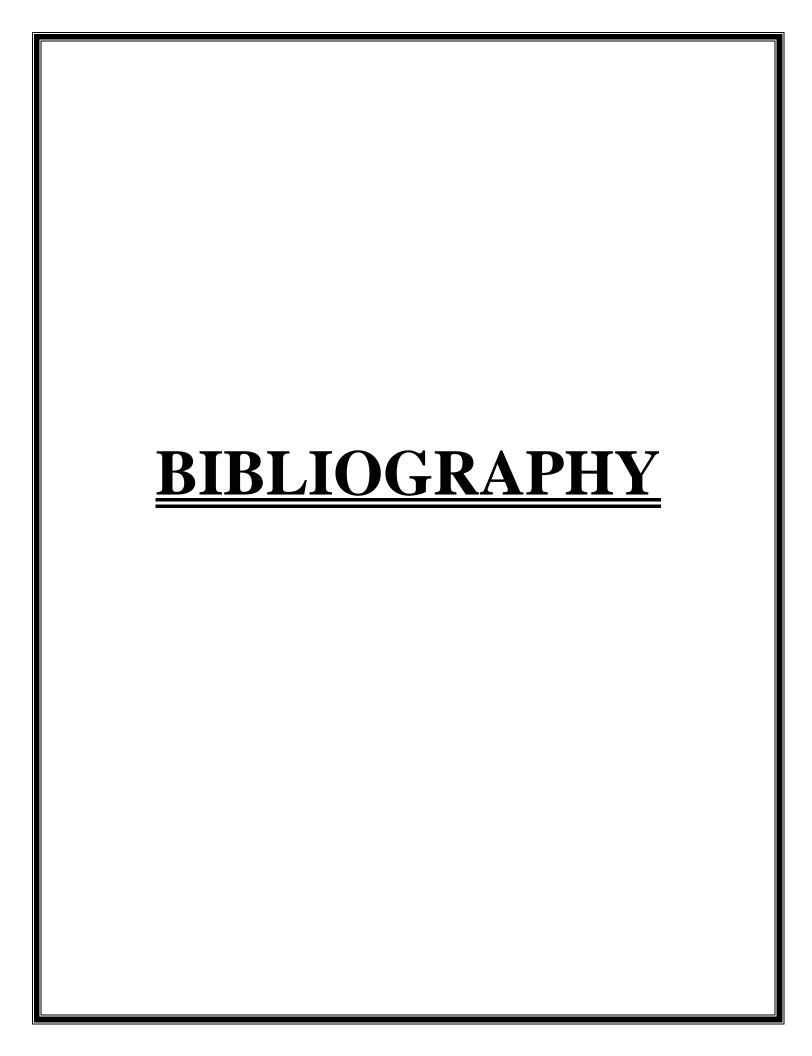
**VIEW SCREEN** 



ALL DETAILS SCREEN



**DETAILS OF INDIVIDUAL EMPLOYEE NUMBER** AS ENTERED IN VIEW SCREEN



- **www.tutorialspoint.com**
- **↓** www.geeksforgeeks.com
- **www.javatpoint.com**
- **www.realpython.com**
- **www.datacamp.com**
- **♣** Computer science with Python with sumita aurora
- 4 You Tube

## THANK YOU