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ABSTRACT

This python project presents a computer science-based hospital management system that seeks to improve the efficiency of a hospital's operations. The system is composed of three main components: patient registration, medical records and self-evaluation. The registration module captures patient demographic information, medical history. The medical records module stores patient medical information, and the billing module records patient financial information. The system is designed to provide secure access to the hospital's records, increase accuracy of information, and reduce paperwork. It also allows for better data analysis and decision-making. Additionally, the system allows for integration with other hospital management systems, such as appointments and pharmacy, to provide a comprehensive view of the patient's data. This system is expected to improve the quality of patient care and satisfaction, as well as reduce paperwork and administrative costs.

INTRODUCTION TO PYTHON

Python is a high level, general-purpose, interpreted dynamic programming language which is increasingly becoming popular in the world of coding in recent times. The uniqueness of this programming language lies in the fact that its design philosophy gives importance to code readability, and the syntax is designed in such a way that concepts can be expressed in a fewer number of lines than in the case of other programming languages like C++ or Java. Python is capable of supporting multiple programming paradigms like “object oriented programming”, “imperative programming” and “functional programming”. Python also has automatic memory management along with a vast and comprehensive standard library.

History

Python was conceptualized by a man named Guido van Rossum in the late 1980s, and the implementation of this programming began in December 1989 at Centrum Wiskunde & Informatica in the Netherlands.

Versions

Python 2.0 was released on 16th October, 2000 and showcased many innovative features that weren't seen before, including a cycle-detecting garbage collector and a support for Unicode. The development process there hence, became far more transparent and community supported.

Python 3.0, which was a major backwards-incompatible release, was released on 3rd December, 2008 after an extended period of testing.

Syntax and Semantics

Python is a programming language which was meant to be a highly readable and user friendly with a clean, uncluttered visual layout. While other languages use punctuation and have a large number of syntactic expressions, Python uses primarily English keywords and has fewer syntactic expressions.

Indentation:

Whitespace indentation is used in Python as opposed to keywords or curly brackets as seen in other languages.

Statements:

Some of the key statements used in Python include, ‘def’, ‘if’, ‘for’, ‘while’, ‘class’, ‘import’, ‘print’, etc.

Methods:

Methods are functions which are attached to an object's class. *instance.method(argument)* is for normal methods and functions. Python methods have an explicit *self* parameter to access 'instance data', whereas, implicit *self* or *this* are used in other OOP languages.

Applications

Python excels at integration tasks, and therefore, it is an efficient tool for gluing things together. For example, 3D software like 'Maya' utilizes Python to automate small user tasks or even for more complex integration like talking to databases and asset management systems.

Due to the combination of easy extensibility, good iteration time and good integration with the data base and other web standards, Python is popularly used in web development, although primarily on the back end.

Advantages

1. The code is easy to read and understand.
2. The standard library allows the execution of a lot of complex functionalities.
3. Supports multiple systems and platforms.
4. Python has a plethora of frameworks that make web programming flexible.
5. Gives rise to quick development using less code.
6. Built in testing framework enables fast workflows.

Disadvantages

1. Python is slow compared to other languages like C++.
2. It is not preferred for mobile development.
3. It is not a good choice for memory intensive tasks
4. There are limitations with database access.
5. IT is not good for multi-processor/multi-core work.

FLOWCHART OF FUNCTIONS / MODULES USED

Modules:-

- tkinter
- tkcalendar
- PIL
- tkinter.ttk
- pandas
- seaborn
- sys
- mysql.connector
- matplotlib
- matplotlib.backends.backend_tkagg
- random
- webbrowser

Packages:-

- GUI
- Anaconda
- Statsmodels

SOFTWARE DESCRIPTION

Machine Name	AVM03
Operating System	Windows 11Home Single Language 64-bit operating system (10.0, Build 22000)
Language	English (Regional Setting: English)
System Manufacturer	Dell Inc.
System Model	Inspiron 3501
BIOS	Default System BIOS
Processor	Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
Memory	4096 MB RAM
Available OS Memory	3978 MB RAM
Windows Dir	D:\Windows
DirectX Version	Direct X 12
DX Setup Parameters	Not found
User DPI Setting	Using System DPI
System DPI Setting	96 DPI (100 percent)
DWM DPI Scaling	Disabled

SOL QUERIES

Sql tables:

	cust_id	email_id	username	paswr	dob	fullname	mob	city	gender	bloodgrp	special
▶	1	gem0912@gmail.com	Gemdihalide	Gem123	2005-12-09	Gembulingam	9832673351	Chennai	M	O+	Colour confused
	748	smudger49@gmail.com	Smith	Batting	2007-12-07	Steve Smith	9842313566	Ahmedabad	M	O+	OCD
	542	smrithi18@gmail.com	Smrithi	Lefthander	2005-04-11	Smrithi Mandhana	9876512636	Delhi	F	O+	
	2	alpharex@gmail.com	Verse	Scooch12	2005-04-22	Vishal	9734673259	Chennai	M	A+	NULL
	3	virat.kohli18@gmail.com	VK	VKAS18	2007-12-12	Virat Kohli	9043012345	Delhi	M	AB+	short temper
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Client table

	username	doc_name	cost	app_date	time
▶	VK	Dr. Monishraj	75.000	2022-12-29 00:00:00	10:00 to 11:00
	Gemdihalide	Dr. Monishraj	75.000	2022-12-24 00:00:00	10:00 to 11:00
	Gemdihalide	Dr. Naren	35.000	2022-12-24 00:00:00	9:00 to 10:00
	Gemdihalide	Dr. Gem	70.000	2022-12-31 00:00:00	19:30 to 20:30
	Gemdihalide	Dr. Manavh	70.000	2022-12-14 00:00:00	19:00 to 20:00
	Gemdihalide	Dr. Vignesh	45.000	2022-12-21 00:00:00	18:00 to 19:00
	Gemdihalide	Dr. Jaideep	35.000	2022-12-21 00:00:00	20:30 to 21:30
	Gemdihalide	Dr. Varsha	40.000	2022-12-21 00:00:00	11:00 to 12:00
	Gemdihalide	Dr. Harini	35.000	2022-12-20 00:00:00	16:30 to 17:30
	Gemdihalide	Dr. Chirag	55.000	2022-12-28 00:00:00	20:30 to 21:30
	Gemdihalide	Dr. Shreya	60.000	2022-12-28 00:00:00	18:30 to 19:30

Appointment booking table

	username	cbc	hemo	ppbs	fbs	serum	thyroid	lipid	vitD	amino	amylase	chole	vitB12	cpk	bg	covid	mg	prolactin	Ca	K	lft	cost
▶	Verse	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	7610

Test booking table

	username	hd	cd	allergies	vaccine
▶	Smith	-	-	Dust allergy	Yes
	Verse	Hypertension	Asthma	Peanuts	Yes
*	NULL	NULL	NULL	NULL	NULL

Patient history table

```
create database avm;

use avm;

create table client(cust_id int,email_id varchar(40),
username varchar(20) PRIMARY KEY,paswr varchar(30),
dob date,fullname varchar(60),mob bigint,city varchar(20),
gender varchar(2),bloodgrp varchar(3),special varchar(200));
```

```
create table bookdoc1 (username varchar(20) ,
doc_name varchar (20), cost float(5,3) ,
app_date datetime, time varchar (15),
foreign key (username) references client (username));
```

```
create table booktests (username varchar(20), cbc int, hemo int, ppbs int,
fbs int, serum int, thyroid int, lipid int,
vitD int, amino int, amylase int, cholse int,
vitB12 int, cpk int, bg int, covid int, mg int,
prolactin int, Ca int, K int, lft int, cost int,
foreign key (username) references client (username));
```

```
create table pahistory (username varchar (20) PRIMARY KEY, hd varchar (40),
cd varchar (40), allergies varchar (20), vaccine varchar (20),
foreign key (username) references client (username));
```


SOURCE CODE

```
import tkinter as tk
import tkcalendar as cale
from PIL import ImageTk, Image
from tkinter import ttk
from tkinter import BOTH, END, LEFT
from tkinter.ttk import Combobox
from tkinter import messagebox
from tkinter import Menu
from tkinter import Label
import pandas as pd
import sys
import mysql.connector as sql
import matplotlib
matplotlib.use("TkAgg")
from matplotlib import pyplot as plt
from matplotlib import dates as mpl_dates
from datetime import datetime, timedelta
from matplotlib.figure import Figure
from matplotlib.backends.backend_tkagg import (
    FigureCanvasTkAgg,
    NavigationToolbar2Tk
)
import random
import webbrowser as wb
import statistics as st
window=tk.Tk()
window.geometry("2000x2000")
window.title("Home Page")
width=2000
height=2000
image = Image.open("hospital.png")
resize_image = image.resize((width, height))
img = ImageTk.PhotoImage(resize_image)
label1 = tk.Label(image=img)
label1.image = img
label1.pack()
greeting=tk.Label(text="AVM Multispeciality Hospital",font=("Times New Roman",24))
greeting.place(x=575,y=5)
label=tk.Label(text="Healthcare Services",fg="red",bg="white",font=("Times New Roman",36))
```

```
label.place(x=575,y=350)
txtfld1=tk.StringVar()
txtfld2=tk.StringVar()
txtfld3=tk.StringVar()
txtfld1a=tk.StringVar()
txtfld2a=tk.StringVar()
txtfld3a=tk.StringVar()
txtfld4a=tk.StringVar()
txtfld5a=tk.IntVar()
txtfld7=tk.StringVar()
txtfld4=tk.StringVar()
det=[]
cbc=0
hemo=0
ppbs=0
fbs=0
serum=0
thyroid=0
lipid=0
vitD=0
amino=0
amylase=0
cholse=0
vitB12=0
cpk=0
bg=0
covid=0
mg=0
prolactin=0
Ca=0
K=0
lft=0
un=""
option=""
test_cost=0
n1= tk.StringVar()
n2= tk.StringVar()
n3= tk.StringVar()
n4= tk.StringVar()
n5= tk.StringVar()
n6= tk.StringVar()
n7= tk.StringVar()
n8= tk.StringVar()
n9= tk.StringVar()
n10= tk.StringVar()
response=[]
```

```

hist1= tk.StringVar()
hist2= tk.StringVar()
hist3= tk.StringVar()
hist4= tk.StringVar()
def open1a():
    global top
    global un
    #top.destroy()
    messagebox.showinfo("Welcome!", "Hello "+un)
    topA=tk.Toplevel(window)          #homepage-mainscreen
    topA.geometry("2000x2000")
    topA.title("Main screen")
    width=2000
    height=2000
    image = Image.open("hospital3.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(topA,image=img)
    label1.image = img
    lbl4=tk.Label(topA,text="Welcome Back",fg="black",font=("Times New
Roman",32))
    lbl4.place(x=600,y=20)
    label1.pack()
def open3():#opens appointment window
    topC=tk.Toplevel(topA)
    topC.geometry("2000x2000")
    topC.title("Appointment")
    width=2000
    height=2000
    image = Image.open("hospital4alt.jpg")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(topC,image=img)
    label1.image = img          #add extra stuff in screen
    label1.pack()
    b1=tk.Button(topC,text="View
schedule",width=20,height=4,bg="red",fg="yellow",font=("Times New Roman",20))
    b1.place(x=400,y=600)
def open3a():
    topI=tk.Toplevel(topC)
    topI.geometry("2000x2000")
    topI.title("View Schedule")
    width=1700
    height=1000
    image = Image.open("hospital10.png")    #add image
    resize_image = image.resize((width, height))

```

```

img = ImageTk.PhotoImage(resize_image)
label1 = tk.Label(topI,image=img)
label1.image = img
label1.pack()
l1=tk.Label(topI,text="Show full schedule:",fg="blue",font=("Times New
Roman",20))
l1.place(x=5,y=100)
l2=tk.Label(topI,text="Filter by : morning
availability",fg="blue",font=("Times New Roman",20))
l2.place(x=5,y=300)
l3=tk.Label(topI,text="Filter by : evening availability",fg="blue",font=("Times
New Roman",20))
l3.place(x=5,y=500)
def open3a1():
    topJ=tk.Toplevel(topI)
    topJ.geometry("2000x2000")
    topJ.title("View full Schedule")
    width=1700
    height=1000
    filename = "D:\Python\docdata1.xlsx"
    df1 = pd.read_excel(filename, sheet_name = "Tables", engine='openpyxl')
    data1=pd.DataFrame(df1, columns=
['Chief_Doctors','Speciality','From','To'])
    txt = tk.Text(topJ)
    txt.pack()
    class PrintToTXT1(object):
        def write(self, s):
            txt.insert(END, s)
    sys.stdout = PrintToTXT1()
    print(data1)
def open3a2():
    topK=tk.Toplevel(topI)
    topK.geometry("2000x2000")
    topK.title("View Schedule filtered by timing")
    width=1700
    height=1000
    filename = "D:\Python\docdata1.xlsx"
    df2 = pd.read_excel(filename, sheet_name = "Tables", engine='openpyxl')
    data2=pd.DataFrame(df2, columns=
['Chief_Doctors','Speciality','From','To'])
    txt = tk.Text(topK)
    txt.pack()
    class PrintToTXT2(object):
        def write(self, s):
            txt.insert(END, s)
    sys.stdout = PrintToTXT2()

```

```

    print(data2.head(4))
def open3a3():
    topM=tk.Toplevel(topI)
    topM.geometry("2000x2000")
    topM.title("View Schedule filtered by timing")
    width=1700
    height=1000
    filename = "D:\Python\docdata1.xlsx"
    df3 = pd.read_excel(filename, sheet_name = "Tables", engine='openpyxl')
    data3=pd.DataFrame(df3, columns=
['Chief_Doctors','Speciality','From','To'])
    txt = tk.Text(topM)
    txt.pack()
    class PrintToTXT3(object):
        def write(self, s):
            txt.insert(END, s)
    sys.stdout = PrintToTXT3()
    print(data3.tail(8))
    b1=tk.Button(topI,text="Select",width= 5,height=1,fg="green",
        bg="white",font=("Times New Roman",24),command=open3a1)
    b1.place(x=545,y=90)
    b2=tk.Button(topI,text="Select",width= 5,height=1,fg="green",
        bg="white",font=("Times New Roman",24),command=open3a2)
    b2.place(x=545,y=290)
    b3=tk.Button(topI,text="Select",width= 5,height=1,fg="green",
        bg="white",font=("Times New Roman",24),command=open3a3)
    b3.place(x=545,y=490)
    b1=tk.Button(topC,text="View
schedule",width=20,height=4,bg="red",fg="yellow",font=("Times New
Roman",20),command=open3a)
    b1.place(x=400,y=600)
def open3c():
    topL=tk.Toplevel(topC)
    topL.geometry("2000x2000")
    topL.title("Book Appointment")
    width=1700
    height=1000
    image = Image.open("hospital10.png")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    labl1 = tk.Label(topL,image=img)
    labl1.image = img        #add extra stuff in screen
    lbl=tk.Label(topL,text="Please select speciality from above",
        fg="black",font=("Times New Roman",32))
    lbl.place(x=100,y=20)
    style= ttk.Style()

```

```

style.theme_use("clam") #clam,alt,default,classic
topL.option_add("*TCombobox*Listbox*selectBackground", "grey")
topL.option_add("*TCombobox*Listbox*Background", "gold")
doc_name=""
cost=0

#app_date= #####
def bookdoc(n):
    global text
    global option
    global cost
    global doc_name
    global un
    option=n.get()
    print(option)
    mydb = sql.connect(host='localhost',
        database='avm',
        username='root',
        password='Vishvak03$'# change password acc to computer
    )
    cursor=mydb.cursor()
    ins="insert into bookdoc1(username,doc_name,cost,app_date,time) values
(%s,%s,%s,%s,%s)"
    data=(un,doc_name,cost,text,option)
    print(data)
    cursor.execute(ins,data)
    mydb.commit()
    mydb.close()
def my_upd(cal,l1):          #dob entry
    global text
    text=cal.get_date()
    l1.config(text=cal.get_date())
def General():
    global option
    global doc_name
    global cost
    name1 = Label(topL, text="Slots are", fg='black', font=("Helvetica", 10))
    name1.place(x = 400, y = 100)
    n = tk.StringVar()
    option = ttk.Combobox(topL, width=23,values=["9:00 to 10:00","10:00 to
11:00","11:00 to 12:00"],
                        textvariable = n)
    option.place(x = 400, y = 125)
    option['state'] = 'readonly'
    cal=calle.DateEntry(topL,fg="red",bg="yellow")
    cal.place(x=400,y=360)

```

```

l1=tk.Label(topL,text='data',bg='yellow')
l1.place(x=800,y=360)
b0=tk.Button(topL,text='Read', command=lambda:my_upd(cal,l1)) #####
b0.place(x=600,y=360)
doc_name="Dr. Monishraj"
cost= 75
bt1=tk.Button(topL, text= "Confirm", width = 5 , fg="yellow",
               bg="blue", font=("Helvetica", 10),command=lambda:bookdoc(n))
bt1.place(x=600,y=700)
def Paediatrician():
    global option
    global doc_name
    global cost
    name1 = Label(topL, text="Slots are", fg='black', font=("Helvetica", 10))
    name1.place(x = 400, y = 100)
    n = tk.StringVar()
    option = ttk.Combobox(topL, width = 23,values = ["8:00 to 9:00","9:00 to
10:00"],
                        textvariable = n)
    option.place(x = 400, y = 125)
    option['state'] = 'readonly'
    cal=cale.DateEntry(topL,fg="red",bg="yellow")
    cal.place(x=400,y=360)
    l1=tk.Label(topL,text='data',bg='yellow')
    l1.place(x=800,y=360)
    b0=tk.Button(topL,text='Read', command=lambda:my_upd(cal,l1)) #####
    b0.place(x=600,y=360)
    doc_name= "Dr. Naren"
    cost= 35
    bt1=tk.Button(topL, text= "Confirm", width = 5 , fg="yellow",
                  bg="blue", font=("Helvetica", 10),command=lambda:bookdoc(n))
    bt1.place(x=600,y=700)
def Cardiologist():
    global option
    global doc_name
    global cost
    name1 = Label(topL, text="Slots are", fg='black', font=("Helvetica", 10))
    name1.place(x =400 , y = 100)
    n = tk.StringVar()
    option = ttk.Combobox(topL, width = 23,values = ["18:00 to 19:00","19:00
to 20:00"],
                        textvariable = n)
    option.place(x = 400, y = 125)
    option['state'] = 'readonly'
    cal=cale.DateEntry(topL,fg="red",bg="yellow")
    cal.place(x=400,y=360)

```

```

l1=tk.Label(topL,text='data',bg='yellow')
l1.place(x=800,y=360)
b0=tk.Button(topL,text='Read', command=lambda:my_upd(cal,l1)) #####
b0.place(x=600,y=360)
doc_name="Dr. Manavh"
cost= 70
bt1=tk.Button(topL, text= "Confirm", width = 5 , fg="yellow",bg="blue",
               font=("Helvetica", 10),command=lambda:bookdoc(n))
bt1.place(x=600,y=700)
def Anaesthetist():
    global option
    global doc_name
    global cost
    name1 = Label(topL, text="Slots are", fg='black',
                  font=("Helvetica", 10))
    name1.place(x = 400, y = 100)
    n = tk.StringVar()
    option = ttk.Combobox(topL, width = 23,values = ["17:00 to 18:00","18:00
to 19:00"],
                        textvariable = n)
    option.place(x = 400, y = 125)
    option['state'] = 'readonly'
    cal=cal.DateEntry(topL,fg="red",bg="yellow")
    cal.place(x=400,y=360)
    l1=tk.Label(topL,text='data',bg='yellow')
    l1.place(x=800,y=360)
    b0=tk.Button(topL,text='Read', command=lambda:my_upd(cal,l1)) #####
    b0.place(x=600,y=360)
    doc_name="Dr. Vignesh"
    cost= 45
    bt1=tk.Button(topL, text= "Confirm", width = 5 , fg="yellow",
                  bg="blue", font=("Helvetica", 10),command=lambda:bookdoc(n))
    bt1.place(x=600,y=700)
def Dermatologist():
    global option
    global doc_name
    global cost
    name1 = Label(topL, text="Slots are", fg='black', font=("Helvetica", 10))
    name1.place(x = 400, y = 100)
    n = tk.StringVar()
    option = ttk.Combobox(topL, width = 23,
                        values = ["18:30 to 19:30","19:30 to 20:30","20:30 to
21:30"],textvariable = n)
    option.place(x = 400, y = 125)
    option['state'] = 'readonly'
    cal=cal.DateEntry(topL,fg="red",bg="yellow")

```



```

cal.place(x=400,y=360)
l1=tk.Label(topL,text='data',bg='yellow')
l1.place(x=800,y=360)
b0=tk.Button(topL,text='Read', command=lambda:my_upd(cal,l1)) #####
b0.place(x=600,y=360)
doc_name= "Dr. Jaideep"
cost=35
bt1=tk.Button(topL, text= "Confirm", width = 5 , fg="yellow",
               bg="blue", font=("Helvetica", 10),command=lambda:bookdoc(n))
bt1.place(x=600,y=700)
def Ophthalmologist():
    global option
    global doc_name
    global cost
    name1 = Label(topL, text="Slots are", fg='black', font=("Helvetica", 10))
    name1.place(x = 400, y = 100)
    n = tk.StringVar()
    option = ttk.Combobox(topL, width = 23,
                          values = ["10:00 to 11:00","11:00 to 12:00","12:00 to
13:00"],textvariable = n)
    option.place(x = 400, y = 125)
    option['state'] = 'readonly'
    cal=calle.DateEntry(topL,fg="red",bg="yellow")
    cal.place(x=400,y=360)
    l1=tk.Label(topL,text='data',bg='yellow')
    l1.place(x=800,y=360)
    b0=tk.Button(topL,text='Read', command=lambda:my_upd(cal,l1)) #####
    b0.place(x=600,y=360)
    doc_name= "Dr. Varsha"
    cost= 40
    bt1=tk.Button(topL, text= "Confirm", width = 5 , fg="yellow",
                  bg="blue", font=("Helvetica", 10),command=lambda:bookdoc(n))
    bt1.place(x=600,y=700)
def Oncologist():
    global option
    global doc_name
    global cost
    name1 = Label(topL, text="Slots are", fg='black', font=("Helvetica", 10))
    name1.place(x = 400, y = 100)
    n = tk.StringVar()
    option = ttk.Combobox(topL, width = 23,values = ["15:30 to 16:30","16:30
to 17:30"],
                          textvariable = n)
    option.place(x = 400, y = 125)
    option['state'] = 'readonly'
    cal=calle.DateEntry(topL,fg="red",bg="yellow")

```

```

cal.place(x=400,y=360)
l1=tk.Label(topL,text='data',bg='yellow')
l1.place(x=800,y=360)
b0=tk.Button(topL,text='Read', command=lambda:my_upd(cal,l1)) #####
b0.place(x=600,y=360)
doc_name= "Dr. Harini"
cost= 35
bt1=tk.Button(topL, text= "Confirm", width = 5 , fg="yellow",
               bg="blue", font=("Helvetica", 10),command=lambda:bookdoc(n))
bt1.place(x=600,y=700)
def Virologist():
    global option
    global doc_name
    global cost
    name1 = Label(topL, text="Slots are", fg='black', font=("Helvetica", 10))
    name1.place(x = 400, y = 100)
    n = tk.StringVar()
    option = ttk.Combobox(topL, width = 23,values = ["19:30 to 20:30","20:30
to 21:30"],
                        textvariable = n)
    option.place(x = 400, y = 125)
    option['state'] = 'readonly'
    cal=calle.DateEntry(topL,fg="red",bg="yellow")
    cal.place(x=400,y=360)
    l1=tk.Label(topL,text='data',bg='yellow')
    l1.place(x=800,y=360)
    b0=tk.Button(topL,text='Read', command=lambda:my_upd(cal,l1)) #####
    b0.place(x=600,y=360)
    doc_name= "Dr. Chirag"
    cost= 55
    bt1=tk.Button(topL, text= "Confirm", width = 5 , fg="yellow",
                  bg="blue", font=("Helvetica", 10),command=lambda:bookdoc(n))
    bt1.place(x=600,y=700)
def Radiologist():
    global option
    global doc_name
    global cost
    name1 = Label(topL, text="Slots are", fg='black', font=("Helvetica", 10))
    name1.place(x = 400, y = 100)
    n = tk.StringVar()
    option = ttk.Combobox(topL, width = 23,values = ["17:30 to 18:30","18:30
to 19:30"],
                        textvariable = n)
    option.place(x = 400, y = 125)
    option['state'] = 'readonly'
    cal=calle.DateEntry(topL,fg="red",bg="yellow")

```

```

cal.place(x=400,y=360)
l1=tk.Label(topL,text='data',bg='yellow')
l1.place(x=800,y=360)
b0=tk.Button(topL,text='Read', command=lambda:my_upd(cal,l1)) #####
b0.place(x=600,y=360)
doc_name= "Dr. Shreya"
cost= 60
bt1=tk.Button(topL, text= "Confirm", width = 5 , fg="yellow",
               bg="blue", font=("Helvetica", 10),command=lambda:bookdoc(n))
bt1.place(x=600,y=700)
def ENT_specialist():
    global option
    global doc_name
    global cost
    name1 = Label(topL, text="Slots are", fg='black', font=("Helvetica", 10))
    name1.place(x = 400, y = 100)
    n = tk.StringVar()
    option = ttk.Combobox(topL, width = 23,values = ["9:30 to 10:30","10:30
to 11:30","11:30 to 12:30"],
                        textvariable = n)
    option.place(x = 400, y = 125)
    option['state'] = 'readonly'
    cal=calle.DateEntry(topL,fg="red",bg="yellow")
    cal.place(x=400,y=360)
    l1=tk.Label(topL,text='data',bg='yellow')
    l1.place(x=800,y=360)
    b0=tk.Button(topL,text='Read', command=lambda:my_upd(cal,l1)) #####
    b0.place(x=600,y=360)
    doc_name= "Dr. Pranav"
    cost= 35
    bt1=tk.Button(topL, text= "Confirm", width = 5 , fg="yellow",
                  bg="blue", font=("Helvetica", 10),command=lambda:bookdoc(n))
    bt1.place(x=600,y=700)
def Neurologist():
    global option
    global doc_name
    global cost
    name1 = Label(topL, text="Slots are", fg='black', font=("Helvetica", 10))
    name1.place(x = 400, y = 100)
    n = tk.StringVar()
    option = ttk.Combobox(topL, width = 23,
                        values = ["18:30 to 19:30","19:30 to 20:30","20:30 to
21:30"],textvariable = n)
    option.place(x = 400, y = 125)
    option['state'] = 'readonly'
    cal=calle.DateEntry(topL,fg="red",bg="yellow")

```

```

cal.place(x=400,y=360)
l1=tk.Label(topL,text='data',bg='yellow')
l1.place(x=800,y=360)
b0=tk.Button(topL,text='Read', command=lambda:my_upd(cal,l1)) #####
b0.place(x=600,y=360)
doc_name= "Dr. Gem"
cost= 70
bt1=tk.Button(topL, text= "Confirm", width = 5 , fg="yellow",
               bg="blue", font=("Helvetica", 10),command=lambda:bookdoc(n))
bt1.place(x=600,y=700)
def Pulmonologist():
    global option
    global doc_name
    global cost
    name1 = Label(topL, text="Slots are", fg='black', font=("Helvetica", 10))
    name1.place(x = 400, y = 100)
    n = tk.StringVar()
    option = ttk.Combobox(topL, width = 23,values = ["19:00 to 20:00","20:00
to 21:00"],
                        textvariable = n)
    option.place(x = 400, y = 125)
    option['state'] = 'readonly'
    cal=calle.DateEntry(topL,fg="red",bg="yellow")
    cal.place(x=400,y=360)
    l1=tk.Label(topL,text='data',bg='yellow')
    l1.place(x=800,y=360)
    b0=tk.Button(topL,text='Read', command=lambda:my_upd(cal,l1)) #####
    b0.place(x=600,y=360)
    doc_name= "Dr. Darshan"
    cost= 40
    bt1=tk.Button(topL, text= "Confirm", width = 5 , fg="yellow",
                  bg="blue", font=("Helvetica", 10),command=lambda:bookdoc(n))
    bt1.place(x=600,y=700)
def window_setup():
    menu = Menu(topL, background = "black", activebackground = "gold")
    topL.config(menu = menu)
    gen = Menu(menu, background = "gold", activebackground = "grey")
#General
    menu.add_cascade(label='General', menu = gen)
    gen.add_command(label='Dr. Monishraj', command = General)
    peds = Menu(menu, background = "gold", activebackground = "grey")
#Paediatrician
    menu.add_cascade(label='Paediatrician', menu = peds)
    peds.add_command(label='Dr. Naren', command = Paediatrician)
    cardio = Menu(menu, background = "gold", activebackground = "grey")
#Cardiologist

```

```

        menu.add_cascade(label='Cardiologist', menu = cardio)
        cardio.add_command(label='Dr. Manavh', command = Cardiologist)
        ana = Menu(menu, background = "gold", activebackground = "grey")
#Anaesthetist
        menu.add_cascade(label='Anaesthetist', menu = ana)
        ana.add_command(label='Dr. Vignesh', command = Anaesthetist)
        derm = Menu(menu, background = "gold", activebackground = "grey")
#Dermatologist
        menu.add_cascade(label='Dermatologist', menu = derm)
        derm.add_command(label='Dr. Jaideep', command = Dermatologist)
        opth = Menu(menu, background = "gold", activebackground = "grey")
#Ophthalmologist
        menu.add_cascade(label='Ophthalmologist', menu = opth)
        opth.add_command(label='Dr. Varsha', command = Ophthalmologist)
        on = Menu(menu, background = "gold", activebackground = "grey")
#Oncologist
        menu.add_cascade(label='Oncologist', menu = on)
        on.add_command(label='Dr. Harini', command = Oncologist)
        viro = Menu(menu, background = "gold", activebackground = "grey")
#Virologist
        menu.add_cascade(label='Virologist', menu = viro)
        viro.add_command(label='Dr. Chirag', command = Virologist)
        rad = Menu(menu, background = "gold", activebackground = "grey")
#Radiologist
        menu.add_cascade(label='Radiologist', menu = rad)
        rad.add_command(label='Dr. Shreya', command = Radiologist)
        ent = Menu(menu, background = "gold", activebackground = "grey")
#ENT_specialist
        menu.add_cascade(label='ENT_specialist', menu = ent)
        ent.add_command(label='Dr. Pranav', command = ENT_specialist)
        neuro = Menu(menu, background = "gold", activebackground = "grey")
#Neurologist
        menu.add_cascade(label='Neurologist', menu = neuro)
        neuro.add_command(label='Dr. Gem', command = Neurologist)
        plum = Menu(menu, background = "gold", activebackground = "grey")
#Pulmonologist
        menu.add_cascade(label='Pulmonologist', menu = plum)
        plum.add_command(label='Dr. Darshan', command = Pulmonologist)
    window_setup()
    label1.pack()
    b2=tk.Button(topC,text="Book Appointment",width=20,height=4,bg="red",
        fg="yellow",font=("Times New Roman",20),command=open3c)
    b2.place(x=400,y=200)
    def cbc_count():
        global test_cost
        global cbc

```

```

    cbc+=1
    test_cost+=390
    print(cbc)
def hemo_count():
    global test_cost
    global hemo
    hemo+=1
    test_cost+=300
    print(hemo)
def ppbs_count():
    global test_cost
    global ppbs
    ppbs+=1
    test_cost+=300
def fbs_count():
    global test_cost
    global fbs
    fbs+=1
    test_cost+=350
def serum_count():
    global test_cost
    global serum
    serum+=1
    test_cost+=400
def thyroid_count():
    global test_cost
    global thyroid
    thyroid+=1
    test_cost+=530
def lipid_count():
    global test_cost
    global lipid
    lipid+=1
    test_cost+=330
def vitD_count():
    global test_cost
    global vitD
    vitD+=1
    test_cost+=240
def amino_count():
    global test_cost
    global amino
    amino+=1
    test_cost+=400
def amylase_count():
    global test_cost

```

```

    global amylase
    amylase+=1
    test_cost+=360
def cholse_count():
    global test_cost
    global cholse
    cholse+=1
    test_cost+=470
def vitB12_count():
    global test_cost
    global vitB12
    vitB12+=1
    test_cost+=450
def cpk_count():
    global test_cost
    global cpk
    cpk+=1
    test_cost+=430
def bg_count():
    global test_cost
    global bg
    bg+=1
    test_cost+=420
def covid_count():
    global test_cost
    global covid
    covid+=1
    test_cost+=100
def mg_count():
    global test_cost
    global mg
    mg+=1
    test_cost+=320
def prolactin_count():
    global test_cost
    global prolactin
    prolactin+=1
    test_cost+=380
def Ca_count():
    global test_cost
    global Ca
    Ca+=1
    test_cost+=400
def K_count():
    global test_cost
    global K

```

```

K+=1
test_cost+=400
def lft_count():
    global test_cost
    global lft
    lft+=1
    test_cost+=300
def book_test():#####
    global test_cost
    global un
    global cbc
    global hemo
    global ppbs
    global fbs
    global serum
    global thyroid
    global lipid
    global vitD
    global amino
    global amylase
    global cholse
    global vitB12
    global cpk
    global bg
    global covid
    global mg
    global prolactin
    global Ca
    global K
    global lft
    mydb = sql.connect(host='localhost',
        database='avm',
        username='root',
        password='Vishvak03$'# change password acc to computer
    )
    cursor=mydb.cursor()
    ins="insert into
booktests(username,cbc,hemo,ppbs,fbs,serum,thyroid,lipid,vitD,amino,amylase,cholse
,vitB12,cpk,bg,covid,mg,prolactin,Ca,K,lft,cost) values
(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)"
    data=(un,cbc,hemo,ppbs,fbs,
        serum,thyroid,lipid,vitD,
        amino,amylase,cholse,vitB12,
        cpk,bg,covid,mg,prolactin,
        Ca,K,lft,test_cost)
    print(data)

```



```

        cursor.execute(ins,data)
        mydb.commit()
        mydb.close()
def open3b1(): #opens book tests window
    topH=tk.Toplevel(topC)
    topH.geometry("2000x2000")
    topH.title("Book Tests page 1 of 2")
    scrollbar=tk.Scrollbar(topH)
    scrollbar.pack( side = tk.RIGHT, fill = tk.Y )
    mylist = tk.Listbox(topH, yscrollcommand = scrollbar.set )
    width=2000
    height=2000
    image = Image.open("hospitalbooktests.jpg")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(topH,image=img)
    label1.image = img        #add extra stuff in screen
    label1.pack()
    l1=tk.Label(topH,text="Complete Blood Count / Hemogram
(CBC)",fg="blue",font=("Times New Roman",20))
    l1.place(x=5,y=100)
    l2=tk.Label(topH,text="Hemoglobin",fg="blue",font=("Times New
Roman",20))
    l2.place(x=5,y=200)
    l3=tk.Label(topH,text="Post Prandial Blood Sugar
(PPBS)",fg="blue",font=("Times New Roman",20))
    l3.place(x=5,y=300)
    l4=tk.Label(topH,text="Fasting Blood Sugar (FBS)",fg="blue",font=("Times
New Roman",20))
    l4.place(x=5,y=400)
    l5=tk.Label(topH,text="Serum Electrolytes",fg="blue",font=("Times New
Roman",20))
    l5.place(x=5,y=500)
    l6=tk.Label(topH,text="Thyroid Profile",fg="blue",font=("Times New
Roman",20))
    l6.place(x=700,y=100)
    l7=tk.Label(topH,text="Lipid Profile",fg="blue",font=("Times New
Roman",20))
    l7.place(x=700,y=200)
    l8=tk.Label(topH,text="Vitamin D Total",fg="blue",font=("Times New
Roman",20))
    l8.place(x=700,y=300)
    l9=tk.Label(topH,text="Amino Acid Profile",fg="blue",font=("Times New
Roman",20))
    l9.place(x=700,y=400)
    l10=tk.Label(topH,text="Amylase",fg="blue",font=("Times New Roman",20))

```

```

110.place(x=700,y=500)
b1=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=cbc_count)
b1.place(x=545,y=90)
b2=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=hemo_count)
b2.place(x=545,y=190)
b3=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=ppbs_count)
b3.place(x=545,y=290)
b4=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=fbs_count)
b4.place(x=545,y=390)
b5=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=serum_count)
b5.place(x=545,y=490)
b6=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=thyroid_count)
b6.place(x=1200,y=90)
b7=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=lipid_count)
b7.place(x=1200,y=190)
b8=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=vitD_count)
b8.place(x=1200,y=290)
b9=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=amino_count)
b9.place(x=1200,y=390)
b10=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=amylase_count)
b10.place(x=1200,y=490)
b21=tk.Button(topH,text="BACK",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=topH.destroy)
b21.place(x=545,y=600)
b22=tk.Button(topH,text="NEXT",width= 5,height=1,fg="green",bg="white",

```

```

        activebackground='#00ff00',font=("Times New
Roman",24),command=open3b2)
        b22.place(x=1200,y=600)
def open3b2():
    topH=tk.Toplevel(topC)
    topH.geometry("2000x2000")
    topH.title("Book Tests page 2 of 2")
    scrollbar=tk.Scrollbar(topH)
    scrollbar.pack( side = tk.RIGHT, fill = tk.Y )
    mylist = tk.Listbox(topH, yscrollcommand = scrollbar.set )
    width=2000
    height=2000
    image = Image.open("hospitalbooktests.jpg")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(topH,image=img)
    label1.image = img        #add extra stuff in screen
    label1.pack()
    l11=tk.Label(topH,text="Total Cholesterol",fg="blue",font=("Times New
Roman",20))
    l11.place(x=5,y=100)
    l12=tk.Label(topH,text="Vitamin B12",fg="blue",font=("Times New
Roman",20))
    l12.place(x=5,y=200)
    l13=tk.Label(topH,text="CPK (Muscle / Brain)",fg="blue",font=("Times New
Roman",20))
    l13.place(x=5,y=300)
    l14=tk.Label(topH,text="Blood Group",fg="blue",font=("Times New
Roman",20))
    l14.place(x=5,y=400)
    l15=tk.Label(topH,text="Covid IgG Antibody Test",fg="blue",font=("Times
New Roman",20))
    l15.place(x=5,y=500)
    l16=tk.Label(topH,text="Magnesium",fg="blue",font=("Times New
Roman",20))
    l16.place(x=700,y=100)
    l17=tk.Label(topH,text="Prolactin",fg="blue",font=("Times New Roman",20))
    l17.place(x=700,y=200)
    l18=tk.Label(topH,text="Calcium (Ca)",fg="blue",font=("Times New
Roman",20))
    l18.place(x=700,y=300)
    l19=tk.Label(topH,text="Potassium (K+)",fg="blue",font=("Times New
Roman",20))
    l19.place(x=700,y=400)
    l20=tk.Label(topH,text="Liver Function Test (LFT)",fg="blue",font=("Times
New Roman",20))

```

```

120.place(x=700,y=500)
b11=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=cholse_count)
b11.place(x=545,y=90)
b12=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=vitB12_count)
b12.place(x=545,y=190)
b13=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=cpk_count)
b13.place(x=545,y=290)
b14=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=bg_count)
b14.place(x=545,y=390)
b15=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=covid_count)
b15.place(x=545,y=490)
b16=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=mg_count)
b16.place(x=1200,y=90)
b17=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=prolactin_count)
b17.place(x=1200,y=190)
b18=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=Ca_count)
b18.place(x=1200,y=290)
b19=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=K_count)
b19.place(x=1200,y=390)
b20=tk.Button(topH,text="Select",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=lft_count)
b20.place(x=1200,y=490)
b21=tk.Button(topH,text="BACK",width= 5,height=1,fg="green",bg="white",
    activebackground='#00ff00',font=("Times New
Roman",24),command=topH.destroy)
b21.place(x=545,y=600)

```

```

b22=tk.Button(topH,text="CONFIRM",width=
7,height=1,fg="green",bg="white",
                activebackground='#00ff00',font=("Times New
Roman",24),command=book_test)
b22.place(x=1200,y=600)
b3=tk.Button(topC,text="Book tests",width=20,height=4,bg="red",fg="yellow",
                font=("Times New Roman",20),command=open3b1)
b3.place(x=800,y=200)
b1=tk.Button(topA,text="Appointments",width=10,height=2,bg="yellow",
                fg="red",font=("Times New Roman",18),command=open3)
b1.place(x=400,y=600)
def open4(): #self check window
    topD=tk.Toplevel(topA)
    topD.geometry("2000x2000")
    topD.title("Self Check")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(topD,image=img)
    label1.image = img        #add extra stuff in screen
    label1.pack()
    l1=tk.Label(topD,text="To assess your condition, click the button below:",
                fg="purple",bg="yellow",font=("Times New Roman",24))
    l1.place(x=100,y=100)
    l2=tk.Label(topD,text="To take up a quiz on safety precautions, click the button
below:",
                fg="purple",bg="yellow",font=("Times New Roman",24))
    l2.place(x=100,y=400)
def quesfinish():
    global response
    q11=tk.Toplevel(topD)
    q11.geometry("2000x2000")
    q11.title("Self Test - End")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q11,image=img)
    label1.image = img        #add extra stuff in screen
    label1.pack()
    lb1=tk.Label(q11,text="Results based on the answers to the previous 10
questions:",
                width=100,height=2,fg="black",font=("Times New Roman",14))

```

```

lb1.place(x=5, y=20)
if int(response[0])<8:
    if int(response[0])<5:

lb1=tk.Label(q11,text="Unhealthy",width=100,height=2,fg="black",font=("Times
New Roman",14))
    lb1.place(x=50, y=100)
    else:
        lb2=tk.Label(q11,text="Healthy, keep track of your health",
            width=100,height=2,fg="black",font=("Times New Roman",14))
        lb2.place(x=50, y=100)
    else:

lb6=tk.Label(q11,text="Healthy",width=100,height=2,fg="black",font=("Times New
Roman",14))
    lb6.place(x=50, y=100)
    if response[1] in ['Several days','More days than not','Nearly every day']:
        if response[1]!="Nearly every day":
            lb3=tk.Label(q11,text="Try to talk about your anxieties to someone.",
                width=100,height=2,fg="black",font=("Times New Roman",14))
            lb3.place(x=50, y=175)
        else:
            lb8=tk.Label(q11,text="Consult a therapist immediately",
                width=100,height=2,fg="black",font=("Times New Roman",14))
            lb8.place(x=50, y=175)
        else:
            lb7=tk.Label(q11,text="Mentally Healthy",width=100,
                height=2,fg="black",font=("Times New Roman",14))
            lb7.place(x=50, y=175)
    if response[2] in ['1','2','3','4','5']:
        if int(response[2])<3:
            lb4=tk.Label(q11,text="Exercise Regularly",width=100,
                height=2,fg="black",font=("Times New Roman",14))
            lb4.place(x=50, y=250)
        else:
            lb5=tk.Label(q11,text="Continue Exercising
Regularly",width=100,height=2,
                fg="black",font=("Times New Roman",14))
            lb5.place(x=50, y=250)
        else:
            lb9=tk.Label(q11,text="Continue Exercising Regularly, keep up the good
physical work :)",
                width=100,height=2,fg="black",font=("Times New Roman",14))
            lb9.place(x=50, y=250)
            bt1=tk.Button(q11,text="Return to
homepage",width=100,height=2,fg="black",

```

```

        font=("Times New Roman",14),command=q11.destroy)
    bt1.place(x=200,y=500)
def nn10(n10):
    global response
    an10=n10.get()
    response.append(an10)
def next10():
    global n10
    q10=tk.Toplevel(topD)
    q10.geometry("2000x2000")
    q10.title("Question 10")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q10,image=img)
    label1.image = img        #add extra stuff in screen
    label1.pack()
    lbl=tk.Label(q10,
        text="10. On how many of the last 7 days did you engage in moderate
to strenuous exercise (like a brisk walk)?",
        fg="purple",bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    a1= ttk.Combobox(q10, width = 27, textvariable = n10)
    a1['values'] = ('0','1','2','3','4','5','6','7')
    a1.current()
    a1.place(x=340,y=380)
    bt1=tk.Button(q10,text="Next",width=10,height=2,fg="black",font=("Times
New Roman",14),
        command=lambda:[quesfinish(),nn10(n10)])
    bt1.place(x=340,y=660)
    bt2=tk.Button(q10,text="Back",width=10,height=2,fg="black",font=("Times
New Roman",14),
        command=lambda:[next9(),q10.destroy()])
    bt2.place(x=800,y=660)
def nn9(n9):
    an9=n9.get()
def next9():
    global n9
    q9=tk.Toplevel(topD)
    q9.geometry("2000x2000")
    q9.title("Question 9")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image

```

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resize_image = image.resize((width, height))
img = ImageTk.PhotoImage(resize_image)
label1 = tk.Label(q9,image=img)
label1.image = img      #add extra stuff in screen
label1.pack()
lbl=tk.Label(q9,
            text="9. How often do you have trouble taking medicines the way you
have been told to take them?",
            fg="purple",bg="yellow",font=("Times New Roman",32))
lbl.place(x=5, y=20)
a1= ttk.Combobox(q9, width = 27, textvariable = n9)
a1['values'] = ('I do not have to take medicine',
               'I always take them as prescribed',
               'Sometimes I take them as prescribed',
               'I seldom take them as prescribed')
a1.current()
a1.place(x=340,y=380)
bt1=tk.Button(q9,text="Next",width=10,height=2,fg="black",
              font=("Times New
Roman",14),command=lambda:[next10(),q9.destroy(),nn9(n9)])
bt1.place(x=340,y=660)
bt2=tk.Button(q9,text="Back",width=10,height=2,fg="black",
              font=("Times New
Roman",14),command=lambda:[next8(),q9.destroy()])
bt2.place(x=800,y=660)
def nn8(n8):
    an8=n8.get()
def next8():
    global n8
    q8=tk.Toplevel(topD)
    q8.geometry("2000x2000")
    q8.title("Question 8")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q8,image=img)
    label1.image = img      #add extra stuff in screen
    label1.pack()
    lbl=tk.Label(q8,
                text="8. Over the past 2 weeks, how often have you felt little interest
or pleasure in doing things?",
                fg="purple",bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    a1= ttk.Combobox(q8, width = 27, textvariable = n8)

```



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a1['values'] = ('Not at all','Several days','More days than not','Nearly every
day')
a1.current()
a1.place(x=340,y=380)
bt1=tk.Button(q8,text="Next",width=10,height=2,fg="black",
              font=("Times New
Roman",14),command=lambda:[next9(),q8.destroy(),nn8(n8)])
bt1.place(x=340,y=660)
bt2=tk.Button(q8,text="Back",width=10,height=2,fg="black",
              font=("Times New
Roman",14),command=lambda:[next7(),q8.destroy()])
bt2.place(x=800,y=660)
def nn7(n7):
    global response
    an7=n7.get()
    response.append(an7)
def next7():
    global n7
    q7=tk.Toplevel(topD)
    q7.geometry("2000x2000")
    q7.title("Question 7")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q7,image=img)
    label1.image = img        #add extra stuff in screen
    label1.pack()
    lbl=tk.Label(q7,
                 text="7. Over the past 2 weeks, how often have you felt down,
depressed, or hopeless?",
                 fg="purple",bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    a1 = ttk.Combobox(q7, width = 27, textvariable = n7)
    a1['values'] = ('Not at all','Several days','More days than not','Nearly every
day')
    a1.current()
    a1.place(x=340,y=380)
    bt1=tk.Button(q7,text="Next",width=10,height=2,fg="black",
                  font=("Times New
Roman",14),command=lambda:[next8(),q7.destroy(),nn7(n7)])
    bt1.place(x=340,y=660)
    bt2=tk.Button(q7,text="Back",width=10,height=2,
                  fg="black",font=("Times New
Roman",14),command=lambda:[next6(),q7.destroy()])

```

```

        bt2.place(x=800,y=660)
def nn6(n6):
    an6=n6.get()
def next6():
    global n6
    q6=tk.Toplevel(topD)
    q6.geometry("2000x2000")
    q6.title("Question 6")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q6,image=img)
    label1.image = img        #add extra stuff in screen
    label1.pack()
    lbl=tk.Label(q6,text="6. Over the past 2 weeks, how often have you felt
nervous, anxious, or on edge?",fg="purple",bg="yellow",font=("Times New
Roman",32))
    lbl.place(x=5, y=20)
    a1= ttk.Combobox(q6, width = 27, textvariable = n6)
    a1['values'] = ('Not at all','Several days','More days than not','Nearly every
day') #values:It specifies the list of values to display in the drop-down listbox.
    a1.current()
    a1.place(x=340,y=380)
    bt1=tk.Button(q6,text="Next",width=10,height=2,fg="black",font=("Times
New Roman",14),
        command=lambda:[next7(),q6.destroy(),nn6(n6)])
    bt1.place(x=340,y=660)
    bt2=tk.Button(q6,text="Back",width=10,height=2,fg="black",font=("Times
New Roman",14),
        command=lambda:[next5(),q6.destroy()])
    bt2.place(x=800,y=660)
def nn5(n5):
    an5=n5.get()
def next5():
    global n5
    q5=tk.Toplevel(topD)
    q5.geometry("2000x2000")
    q5.title("Question 5")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q5,image=img)

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label1.image = img          #add extra stuff in screen
label1.pack()
lbl=tk.Label(q5,text="5. Do you have any hereditary conditions/diseases?",
            fg="purple",bg="yellow",font=("Times New Roman",32))
lbl.place(x=5, y=20)
a1= ttk.Combobox(q5, width = 27, textvariable = n5)
a1['values'] = ('High blood
pressure','Diabetes','Hemophilia','Thalassemia','Huntington','Other')
a1.current()
a1.place(x=340,y=380)
bt1=tk.Button(q5,text="Next",width=10,height=2,fg="black",font=("Times
New Roman",14),
            command=lambda:[next6(),q5.destroy(),nn5(n5)])
bt1.place(x=340,y=660)
bt2=tk.Button(q5,text="Back",width=10,height=2,fg="black",font=("Times
New Roman",14),
            command=lambda:[next4(),q5.destroy()])
bt2.place(x=800,y=660)
def nn4(n4):
    an4=n4.get()
def next4():
    global n4
    q4=tk.Toplevel(topD)
    q4.geometry("2000x2000")
    q4.title("Question 4")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q4,image=img)
    label1.image = img          #add extra stuff in screen
    label1.pack()
    lbl=tk.Label(q4,text="4. Do you have any chronic diseases?",
            fg="purple",bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    a1= ttk.Combobox(q4, width = 27, textvariable = n4)
    a1['values'] = ('Yes','No')
    a1.current()
    a1.place(x=340,y=380)
    bt1=tk.Button(q4,text="Next",width=10,height=2,fg="black",
            font=("Times New
Roman",14),command=lambda:[next5(),q4.destroy(),nn4(n4)])
    bt1.place(x=340,y=660)
    bt2=tk.Button(q4,text="Back",width=10,height=2,fg="black",

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        font=("Times New
Roman",14),command=lambda:[next3(),q4.destroy()])
        bt2.place(x=800,y=660)
def nn3(n3):
    an3=n3.get()
def next3():
    global n3
    q3=tk.Toplevel(topD)
    q3.geometry("2000x2000")
    q3.title("Question 3")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q3,image=img)
    label1.image = img
    label1.pack()
    lbl=tk.Label(q3,text="3. What do you say about your overall health?",
        fg="purple",bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    a1= ttk.Combobox(q3, width = 27, textvariable = n3)
    a1['values'] = ('Having Good Physical Health','Moderately physically
impaired',
        'Severely physically impaired','Totally physically impaired')
    a1.current()
    a1.place(x=340,y=380)
    bt1=tk.Button(q3,text="Next",width=10,height=2,fg="black",
        font=("Times New
Roman",14),command=lambda:[next4(),q3.destroy(),nn3(n3)])
    bt1.place(x=340,y=660)
    bt2=tk.Button(q3,text="Back",width=10,height=2,fg="black",
        font=("Times New
Roman",14),command=lambda:[next2(),q3.destroy()])
    bt2.place(x=800,y=660)
def nn2(n2):
    global response
    an2=n2.get()
    response.append(an2)
def next2():
    global n2
    q2=tk.Toplevel(topD)
    q2.geometry("2000x2000")
    q2.title("Question 2")
    width=1500
    height=800

```

```

image = Image.open("hospitalselfcheck.png")
resize_image = image.resize((width, height))
img = ImageTk.PhotoImage(resize_image)
label1 = tk.Label(q2,image=img)
label1.image = img
label1.pack()
lbl=tk.Label(q2,text="2. How often do you get a health checkup?",
            fg="purple",bg="yellow",font=("Times New Roman",32))
lbl.place(x=5, y=20)
a1= ttk.Combobox(q2, width = 27, textvariable = n2)
a1['values'] = ('Once in 3 months','Once in 6 months',
            'Once a year','Only when needed','Never get it done')
a1.current()
a1.place(x=340,y=380)
bt1=tk.Button(q2,text="Next",width=10,height=2,fg="black",
            font=("Times New
Roman",14),command=lambda:[next3(),q2.destroy(),nn2(n2)])
bt1.place(x=340,y=660)
bt2=tk.Button(q2,text="Back",width=10,height=2,fg="black",
            font=("Times New
Roman",14),command=lambda:[next1(),q2.destroy()])
bt2.place(x=800,y=660)
def nn1(n1):
    global response
    an1=n1.get()
    response.append(an1)
def next1():
    global n1
    q1=tk.Toplevel(topD)
    q1.geometry("2000x2000")
    q1.title("Question 1")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q1,image=img)
    label1.image = img    #add extra stuff in screen
    label1.pack()
    lbl=tk.Label(q1,text="1. How healthy do you consider yourself on a scale of 1
to 10?",
            fg="purple",bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    a1= ttk.Combobox(q1, width = 27, textvariable = n1)
    a1['values'] = ('1','2','3','4','5','6','7','8','9','10')
    a1.current()

```

```

a1.place(x=340,y=380)
bt1=tk.Button(q1,text="Next",width=10,height=2,fg="black",
              font=("Times New
Roman",14),command=lambda:[next2(),q1.destroy(),nn1(n1)])
bt1.place(x=340,y=660)
bt2=tk.Button(q1,text="Back",width=10,height=2,fg="black",
              font=("Times New Roman",14),command=q1.destroy)
bt2.place(x=800,y=660)
b1=tk.Button(topD,text="Start",width=10,height=4,bg="yellow",
              fg="red",font=("Times New Roman",20),command=next1)
b1.place(x=400,y=200)
b1=tk.Button(topD,text="Start",width=10,height=4,bg="yellow",
              fg="red",font=("Times New Roman",20),command=next1)
b1.place(x=400,y=200)
def sel():
    global var
    selection = "You selected the option " + var.get()
    label.config(text = selection)
def qzfinish():
    global var
    q11=tk.Toplevel(topD)
    q11.geometry("2000x2000")
    q11.title("Qustions - End")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q11,image=img)
    label1.image = img
    label1.pack()
    lb1=tk.Label(q11,text="Results:",width=10,height=2,fg="black",font=("Times
New Roman",14))
    lb1.place(x=5, y=20)
    bt1=tk.Button(q11,text="Return to homepage",width=20,height=2,
                  fg="black",font=("Times New Roman",14),command=q11.destroy)
    bt1.place(x=200,y=500)
def qz10():
    global var
    q10=tk.Toplevel(topD)
    q10.geometry("2000x2000")
    q10.title("Question 10")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image
    resize_image = image.resize((width, height))

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```

img = ImageTk.PhotoImage(resize_image)
label1 = tk.Label(q10,image=img)
label1.image = img      #add extra stuff in screen
label1.pack()
lbl=tk.Label(q10,text="10. If someone near you has been electrocuted, when
should that person see a doctor?",
            fg="purple",bg="yellow",font=("Times New Roman",32))
lbl.place(x=5, y=20)
var = tk.StringVar()
def sel10():
    s=var.get()
    selection = "You selected the option " + s
    label1.config(text = selection)
    label2.config(text = "The correct option is B. Electrocutation victims should
ALWAYS see a doctor.")
    R1 = tk.Radiobutton(q10, text="A. If the electrocution was bad enough to
cause burns",
                        fg="blue",font=("Times New Roman",24), variable=var,
value="A",command=sel10)
    R1.place(x=100,y=100)
    R2 = tk.Radiobutton(q10, text="B. Electrocutation victims should ALWAYS
see a doctor.",
                        fg="blue",font=("Times New Roman",24), variable=var,
value="B",command=sel10)
    R2.place(x=100,y=200)
    R3 = tk.Radiobutton(q10, text="C. Electrocutation victims never have to see a
doctor",
                        fg="blue",font=("Times New Roman",24), variable=var,
value="C",command=sel10)
    R3.place(x=100,y=300)
    R4 = tk.Radiobutton(q10, text="D. If the electrocution causes tremors or
confusion",
                        fg="blue",font=("Times New Roman",24), variable=var,
value="D",command=sel10)
    R4.place(x=100,y=400)
    label1 = tk.Label(q10,fg="purple",font=("Times New Roman",18))
    label1.place(x=100,y=500)
    label2 = tk.Label(q10,fg="purple",font=("Times New Roman",18))
    label2.place(x=100,y=550)
    bt1=tk.Button(q10,text="Next",width=10,height=2,fg="black",
font=("Times New
Roman",14),command=lambda:[qzfinish(),q10.destroy()])
    bt1.place(x=340,y=660)
    bt2=tk.Button(q10,text="Back",width=10,height=2,fg="black",
font=("Times New
Roman",14),command=lambda:[qz9(),q10.destroy()])

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```

        bt2.place(x=800,y=660)
def qz9():
    global var
    q9=tk.Toplevel(topD)
    q9.geometry("2000x2000")
    q9.title("Question 9")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q9,image=img)
    label1.image = img
    label1.pack()
    lbl=tk.Label(q9,
                text="9. You are at a pool party, and a friend gets stuck under water.
When he is pulled out of the water, he is unconscious. What should you do before you
start CPR or mouth-to-mouth resuscitation?",
                fg="purple",bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    var = tk.StringVar()
    def sel9():
        s=var.get()
        selection = "You selected the option " + s
        label1.config(text = selection)
        label2.config(text = "The correct option is B. Put your ear to the person's
nose to check if he or she is breathing.")
        R1 = tk.Radiobutton(q9, text="A. Poke the person's toe with a needle to check
for reflexes",
                            fg="blue",font=("Times New Roman",24), variable=var,
value="A",command=sel9)
        R1.place(x=100,y=100)
        R2 = tk.Radiobutton(q9,
                            text="B. Put your ear to the person's nose to check if he or she is
breathing.",
                            fg="blue",font=("Times New Roman",24), variable=var,
value="B",command=sel9)
        R2.place(x=100,y=200)
        R3 = tk.Radiobutton(q9,
                            text="C. Pinch the person's face to bring back consciousness",
                            fg="blue",font=("Times New Roman",24), variable=var,
value="C",command=sel9)
        R3.place(x=100,y=300)
        R4 = tk.Radiobutton(q9, text="D. Splash the person's face with water to shock
him awake",

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        fg="blue",font=("Times New Roman",24), variable=var,
value="D",command=sel9)
    R4.place(x=100,y=400)
    label1 = tk.Label(q9,fg="purple",font=("Times New Roman",18))
    label1.place(x=100,y=500)
    label2 = tk.Label(q9,fg="purple",font=("Times New Roman",18))
    label2.place(x=100,y=550)
    bt1=tk.Button(q9,text="Next",width=10,height=2,fg="black",font=("Times
New Roman",14),
        command=lambda:[qz10(),q9.destroy()])
    bt1.place(x=340,y=660)
    bt2=tk.Button(q9,text="Back",width=10,height=2,fg="black",font=("Times
New Roman",14),
        command=lambda:[qz8(),q9.destroy()])
    bt2.place(x=800,y=660)
def qz8():
    global var
    q8=tk.Toplevel(topD)
    q8.geometry("2000x2000")
    q8.title("Question 8")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q8,image=img)
    label1.image = img
    label1.pack()
    lbl=tk.Label(q8,
        text="8. If someone you know becomes disoriented or loses alertness,
which of these questions should you NOT ask him or her?",
        fg="purple",bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    var = tk.StringVar()
    def sel8():
        s=var.get()
        selection = "You selected the option " + s
        label1.config(text = selection)
        label2.config(text = "The correct option is D. What is the square root of
164,752?.")
    R1 = tk.Radiobutton(q8, text="A. How old are you?",fg="blue",font=("Times
New Roman",24),
        variable=var, value="A",command=sel8)
    R1.place(x=100,y=100)
    R2 = tk.Radiobutton(q8, text="B. What is the date?",fg="blue",

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        font=("Times New Roman",24), variable=var,
value="B",command=sel8)
    R2.place(x=100,y=200)
    R3 = tk.Radiobutton(q8, text="C. What is your
name?",fg="blue",font=("Times New Roman",24),
        variable=var, value="C",command=sel8)
    R3.place(x=100,y=300)
    R4 = tk.Radiobutton(q8, text="D. What is the square root of
164,752?.",fg="blue",
        font=("Times New Roman",24), variable=var,
value="D",command=sel8)
    R4.place(x=100,y=400)
    label1 = tk.Label(q8,fg="purple",font=("Times New Roman",18))
    label1.place(x=100,y=500)
    label2 = tk.Label(q8,fg="purple",font=("Times New Roman",18))
    label2.place(x=100,y=550)
    bt1=tk.Button(q8,text="Next",width=10,height=2,fg="black",font=("Times
New Roman",14),
        command=lambda:[qz9(),q8.destroy()])
    bt1.place(x=340,y=660)
    bt2=tk.Button(q8,text="Back",width=10,height=2,fg="black",font=("Times
New Roman",14),
        command=lambda:[qz7(),q8.destroy()])
    bt2.place(x=800,y=660)
def qz7():
    global var
    q7=tk.Toplevel(topD)
    q7.geometry("2000x2000")
    q7.title("Question 7")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q7,image=img)
    label1.image = img
    label1.pack()
    lbl=tk.Label(q7,text="7. How do you help a choking person?",
        fg="purple",bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    var = tk.StringVar()
    def sel7():
        s=var.get()
        selection = "You selected the option " + s
        label1.config(text = selection)
        label2.config(text = "The correct option is B. Begin back blows.")

```

```

R1 = tk.Radiobutton(q7, text="A. Make them sit properly",fg="blue",
                    font=("Times New Roman",24), variable=var,
value="A",command=sel7)
R1.place(x=100,y=100)
R2 = tk.Radiobutton(q7, text="B. Begin back blows.",fg="blue",font=("Times
New Roman",24),
                    variable=var, value="B",command=sel7)
R2.place(x=100,y=200)
R3 = tk.Radiobutton(q7, text="C. Call 911",fg="blue",font=("Times New
Roman",24),
                    variable=var, value="C",command=sel7)
R3.place(x=100,y=300)
R4 = tk.Radiobutton(q7, text="D. Make them sleep",fg="blue",
                    font=("Times New Roman",24), variable=var,
value="D",command=sel7)
R4.place(x=100,y=400)
label1 = tk.Label(q7,fg="purple",font=("Times New Roman",18))
label1.place(x=100,y=500)
label2 = tk.Label(q7,fg="purple",font=("Times New Roman",18))
label2.place(x=100,y=550)
bt1=tk.Button(q7,text="Next",width=10,height=2,fg="black",font=("Times
New Roman",14),
              command=lambda:[qz8(),q7.destroy()])
bt1.place(x=340,y=660)
bt2=tk.Button(q7,text="Back",width=10,height=2,fg="black",font=("Times
New Roman",14),
              command=lambda:[qz6(),q7.destroy()])
bt2.place(x=800,y=660)
def qz6():
    global var
    q6=tk.Toplevel(topD)
    q6.geometry("2000x2000")
    q6.title("Question 6")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q6,image=img)
    label1.image = img        #add extra stuff in screen
    label1.pack()
    lbl=tk.Label(q6,text="6. What determines you to use CPR?",fg="purple",
                  bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    var = tk.StringVar()
    def sel6():

```

```

s=var.get()
selection = "You selected the option " + s
label1.config(text = selection)
label2.config(text = "The correct option is C. If someone is not breathing
normally.")
R1 = tk.Radiobutton(q6, text="A. When a person is not moving",fg="blue",
                    font=("Times New Roman",24), variable=var,
value="A",command=sel6)
R1.place(x=100,y=100)
R2 = tk.Radiobutton(q6, text="B. When a person is low in energy",fg="blue",
                    font=("Times New Roman",24), variable=var,
value="B",command=sel6)
R2.place(x=100,y=200)
R3 = tk.Radiobutton(q6, text="C. If someone is not breathing normally.",
                    fg="blue",font=("Times New Roman",24), variable=var,
value="C",command=sel6)
R3.place(x=100,y=300)
R4 = tk.Radiobutton(q6, text="D. All of the above",fg="blue",font=("Times
New Roman",24),
                    variable=var, value="D",command=sel6)
R4.place(x=100,y=400)
label1 = tk.Label(q6,fg="purple",font=("Times New Roman",18))
label1.place(x=100,y=500)
label2 = tk.Label(q6,fg="purple",font=("Times New Roman",18))
label2.place(x=100,y=550)
bt1=tk.Button(q6,text="Next",width=10,height=2,fg="black",font=("Times
New Roman",14),
              command=lambda:[qz7(),q6.destroy()])
bt1.place(x=340,y=660)
bt2=tk.Button(q6,text="Back",width=10,height=2,fg="black",font=("Times
New Roman",14),
              command=lambda:[qz5(),q6.destroy()])
bt2.place(x=800,y=660)
def qz5():
    global var
    q5=tk.Toplevel(topD)
    q5.geometry("2000x2000")
    q5.title("Question 5")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q5,image=img)
    lbl=tk.Label(q5,text="5. Which of these is not a sign of heatstroke?",
                fg="purple",bg="yellow",font=("Times New Roman",32))

```

```

lbl.place(x=5, y=20)
var = tk.StringVar()
def sel5():
    s=var.get()
    selection = "You selected the option " + s
    label1.config(text = selection)
    label2.config(text = "The correct option is A. Nose bleeding.")
    R1 = tk.Radiobutton(q5, text="A. Nose bleeding.",fg="blue",font=("Times
New Roman",24),
                        variable=var, value="A",command=sel5)
    R1.place(x=100,y=100)
    R2 = tk.Radiobutton(q5, text="B. Muscle cramps",fg="blue",font=("Times
New Roman",24),
                        variable=var, value="B",command=sel5)
    R2.place(x=100,y=200)
    R3 = tk.Radiobutton(q5, text="C. Nausea or
vomiting",fg="blue",font=("Times New Roman",24),
                        variable=var, value="C",command=sel5)
    R3.place(x=100,y=300)
    R4 = tk.Radiobutton(q5, text="D. None of the above",fg="blue",font=("Times
New Roman",24),
                        variable=var, value="D",command=sel5)
    R4.place(x=100,y=400)
    label1 = tk.Label(q5,fg="purple",font=("Times New Roman",18))
    label1.place(x=100,y=500)
    label2 = tk.Label(q5,fg="purple",font=("Times New Roman",18))
    label2.place(x=100,y=550)
    bt1=tk.Button(q5,text="Next",width=10,height=2,fg="black",font=("Times
New Roman",14),
                  command=lambda:[qz6(),q5.destroy()])
    bt1.place(x=340,y=660)
    bt2=tk.Button(q5,text="Back",width=10,height=2,fg="black",font=("Times
New Roman",14),
                  command=lambda:[qz4(),q5.destroy()])
    bt2.place(x=800,y=660)
def qz4():
    global var
    q4=tk.Toplevel(topD)
    q4.geometry("2000x2000")
    q4.title("Question 4")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")    #add image
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q4,image=img)

```

```

label1.image = img          #add extra stuff in screen
label1.pack()
lbl=tk.Label(q4,
             text="4. Which of the following is a common sign or symptom of a
patient experiencng a diabetic emergency?",
             fg="purple",bg="yellow",font=("Times New Roman",32))
lbl.place(x=5, y=20)
var = tk.StringVar()
def sel4():
    s=var.get()
    selection = "You selected the option " + s
    label1.config(text = selection)
    label2.config(text = "The correct option is B. Pale, clammy skin.")
    R1 = tk.Radiobutton(q4, text="A. Slow pulse",fg="blue",font=("Times New
Roman",24),
                       variable=var, value="A",command=sel4)
    R1.place(x=100,y=100)
    R2 = tk.Radiobutton(q4, text="B. Pale, clammy skin.",fg="blue",font=("Times
New Roman",24),
                       variable=var, value="B",command=sel4)
    R2.place(x=100,y=200)
    R3 = tk.Radiobutton(q4, text="C. Elevated blood
pressure",fg="blue",font=("Times New Roman",24),
                       variable=var, value="C",command=sel4)
    R3.place(x=100,y=300)
    R4 = tk.Radiobutton(q4, text="D. Decreased respiratory
rate",fg="blue",font=("Times New Roman",24),
                       variable=var, value="D",command=sel4)
    R4.place(x=100,y=400)
    label1 = tk.Label(q4,fg="purple",font=("Times New Roman",18))
    label1.place(x=100,y=500)
    label2 = tk.Label(q4,fg="purple",font=("Times New Roman",18))
    label2.place(x=100,y=550)
    bt1=tk.Button(q4,text="Next",width=10,height=2,fg="black",font=("Times
New Roman",14),
                  command=lambda:[qz5(),q4.destroy()])
    bt1.place(x=340,y=660)
    bt2=tk.Button(q4,text="Back",width=10,height=2,fg="black",font=("Times
New Roman",14),
                  command=lambda:[qz3(),q4.destroy()])
    bt2.place(x=800,y=660)
def qz3():
    global var
    q3=tk.Toplevel(topD)
    q3.geometry("2000x2000")
    q3.title("Question 3")

```

```

width=1500
height=800
image = Image.open("hospitalselfcheck.png")
resize_image = image.resize((width, height))
img = ImageTk.PhotoImage(resize_image)
label1 = tk.Label(q3,image=img)
label1.image = img
label1.pack()
lbl=tk.Label(q3,
            text="3. The victim has pale or bluish skin color, cold skin, and dull or
sunken eyes. These are symptoms of which health emergency?",
            fg="purple",bg="yellow",font=("Times New Roman",32))
lbl.place(x=5, y=20)
var = tk.StringVar()
def sel3():
    s=var.get()
    selection = "You selected the option " + s
    label1.config(text = selection)
    label2.config(text = "The correct option is B. Shock.")
R1 = tk.Radiobutton(q3, text="A. High fever",fg="blue",font=("Times New
Roman",24),
                    variable=var, value="A",command=sel3)
R1.place(x=100,y=100)
R2 = tk.Radiobutton(q3, text="B. Shock.",fg="blue",font=("Times New
Roman",24),
                    variable=var, value="B",command=sel3)
R2.place(x=100,y=200)
R3 = tk.Radiobutton(q3, text="C. Heart attack",fg="blue",font=("Times New
Roman",24),
                    variable=var, value="C",command=sel3)
R3.place(x=100,y=300)
R4 = tk.Radiobutton(q3, text="D. None of the above",fg="blue",
                    font=("Times New Roman",24), variable=var,
value="D",command=sel3)
R4.place(x=100,y=400)
label1 = tk.Label(q3,fg="purple",font=("Times New Roman",18))
label1.place(x=100,y=500)
label2 = tk.Label(q3,fg="purple",font=("Times New Roman",18))
label2.place(x=100,y=550)
bt1=tk.Button(q3,text="Next",width=10,height=2,fg="black",font=("Times
New Roman",14),
              command=lambda:[qz4(),q3.destroy()])
bt1.place(x=340,y=660)
bt2=tk.Button(q3,text="Back",width=10,height=2,fg="black",font=("Times
New Roman",14),
              command=lambda:[qz2(),q3.destroy()])

```

```

        bt2.place(x=800,y=660)
def qz2():
    global var
    q2=tk.Toplevel(topD)
    q2.geometry("2000x2000")
    q2.title("Question 2")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q2,image=img)
    label1.image = img
    label1.pack()
    lbl=tk.Label(q2,text="2. If a person has a bleeding wound, what should you
do?",
                fg="purple",bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    var = tk.StringVar()
    def sel2():
        s=var.get()
        selection = "You selected the option " + s
        label1.config(text = selection)
        label2.config(text = "The correct option is D. B and C.")
        R1 = tk.Radiobutton(q2, text="A. Apply a tourniquet right away",fg="blue",
                font=("Times New Roman",24), variable=var,
value="A",command=sel2)
        R1.place(x=100,y=100)
        R2 = tk.Radiobutton(q2, text="B. Cover the wound with a clean
cloth",fg="blue",
                font=("Times New Roman",24), variable=var,
value="B",command=sel2)
        R2.place(x=100,y=200)
        R3 = tk.Radiobutton(q2, text="C. Put continuous pressure on the wound with
the palm of your hand",
                fg="blue",font=("Times New Roman",24), variable=var,
value="C",command=sel2)
        R3.place(x=100,y=300)
        R4 = tk.Radiobutton(q2, text="D. B and C.",fg="blue",font=("Times New
Roman",24),
                variable=var, value="D",command=sel2)
        R4.place(x=100,y=400)
    label1 = tk.Label(q2,fg="purple",font=("Times New Roman",18))
    label1.place(x=100,y=500)
    label2 = tk.Label(q2,fg="purple",font=("Times New Roman",18))
    label2.place(x=100,y=550)

```



```

        bt1=tk.Button(q2,text="Next",width=10,height=2,fg="black",font=("Times
New Roman",14),
                    command=lambda:[qz3(),q2.destroy()])
        bt1.place(x=340,y=660)
        bt2=tk.Button(q2,text="Back",width=10,height=2,fg="black",font=("Times
New Roman",14),
                    command=lambda:[qz1(),q2.destroy()])
        bt2.place(x=800,y=660)
def qz1():
    global var
    q1=tk.Toplevel(topD)
    q1.geometry("2000x2000")
    q1.title("Question 1")
    width=1500
    height=800
    image = Image.open("hospitalselfcheck.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(q1,image=img)
    label1.image = img
    label1.pack()
    lbl=tk.Label(q1,text="1. If you need to call 911 in an emergency, what should
you tell the dispatcher?",
                fg="purple",bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    var = tk.StringVar()
    def sel1():
        s=var.get()
        selection = "You selected the option " + s
        label1.config(text = selection)
        label2.config(text = "The correct option is D. All of the above.")
    R1 = tk.Radiobutton(q1, text="A. Describe the
emergency",fg="blue",font=("Times New Roman",24),
                        variable=var, value="A",command=sel1)
    R1.place(x=100,y=100)
    R2 = tk.Radiobutton(q1, text="B. Give your name and the telephone number
of the phone you are using to make the call",
                        fg="blue",font=("Times New Roman",24), variable=var,
value="B",command=sel1)
    R2.place(x=100,y=200)
    R3 = tk.Radiobutton(q1, text="C. Give the exact address where the emergency
occurred",
                        fg="blue",font=("Times New Roman",24), variable=var,
value="C",command=sel1)
    R3.place(x=100,y=300)

```

```

R4 = tk.Radiobutton(q1, text="D. All of the above.",fg="blue",font=("Times
New Roman",24),
                    variable=var, value="D",command=sel1)
R4.place(x=100,y=400)
label1 = tk.Label(q1,fg="purple",font=("Times New Roman",18))
label1.place(x=100,y=500)
label2 = tk.Label(q1,fg="purple",font=("Times New Roman",18))
label2.place(x=100,y=550)
bt1=tk.Button(q1,text="Next",width=10,height=2,fg="black",font=("Times
New Roman",14),
              command=lambda:[qz2(),q1.destroy()])
bt1.place(x=340,y=660)
bt2=tk.Button(q1,text="Back",width=10,height=2,fg="black",
              font=("Times New Roman",14),command=q1.destroy)
bt2.place(x=800,y=660)
b2=tk.Button(topD,text="Start",width=10,height=4,bg="yellow",fg="red",
              font=("Times New Roman",20),command=qz1)
b2.place(x=400,y=500)
b3=tk.Button(topD,text="return to \nhome
page",width=20,height=4,bg="yellow",
              fg="red",font=("Times New Roman",16),command=topD.destroy)
b3.place(x=800,y=600)
b2=tk.Button(topA,text="Self Check",width=10,height=2,bg="yellow",fg="red",
              font=("Times New Roman",18),command=open4)
b2.place(x=800,y=600)
def open5():      #about us screen
    def graph():
        def graphnxt():
            plt.style.use('seaborn')
            topEnxt=tk.Tk()
            topEnxt.geometry("2000x2000")
            topEnxt.title("graph")
            width=2000
            height=2000
            matplotlib.use('TkAgg')
            f = Figure(figsize=(5,5), dpi=100)
            a = f.add_subplot(111)
            dates = [
                datetime(2020, 2, 1),
                datetime(2020, 3, 1),
                datetime(2020, 4, 1),
                datetime(2020, 5, 1),
                datetime(2020, 6, 1),
                datetime(2020, 7, 1),
                datetime(2020, 8, 1),
                datetime(2020, 9, 1),

```

```

datetime(2020, 10, 1),
datetime(2020, 11, 1),
datetime(2020, 12, 1),
datetime(2021, 1, 1),
datetime(2021, 2, 1),
datetime(2021, 3, 1),
datetime(2021, 4, 1),
datetime(2021, 5, 1),
datetime(2021, 6, 1),
datetime(2021, 7, 1),
datetime(2021, 8, 1),
datetime(2021, 9, 1),
datetime(2021, 10, 1),
datetime(2021, 11, 1),
datetime(2021, 12, 1),
datetime(2022, 1, 1),
datetime(2022, 2, 1),
datetime(2022, 3, 1),
datetime(2022, 4, 1),
datetime(2022, 5, 1),
datetime(2022, 6, 1),
datetime(2022, 7, 1),
datetime(2022, 8, 1),
datetime(2022, 9, 1),
datetime(2022, 10, 1),
]

y = [3,20,120,430,
      880,2000,2500,7000,
      8000,9300,16000,16400,
      12000,15000,23500,41000,
      53000,73000,40000,30000,
      20000,10000,5000,100000,
      350000,75000,5000,2500,
      20000,2000,5000,2500,
      500
]
temp2=y
figure = Figure(figsize=(6, 4), dpi=100)
figure_canvas = FigureCanvasTkAgg(figure, topEnxt)
NavigationToolbar2Tk(figure_canvas, topEnxt)
axes = figure.add_subplot()
axes.plot(dates,y)
axes.plot(dates, y,linestyle='solid')
plt.gcf().autofmt_xdate()
date_format=mpl_dates.DateFormatter('%b,%m,%Y')

```

```

axes.set_title('Covid 19 deaths average per month in India')
axes.set_ylabel('deaths')
figure_canvas.get_tk_widget().pack(side=tk.TOP, fill=tk.BOTH, expand=1)
def stat():
    nonlocal temp1
    nonlocal temp2
    topEst=tk.Toplevel(topE)
    topEst.geometry("2000x2000")
    topEst.title("About us")
    width=2000
    height=2000
    image = Image.open("hospital6.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(topEst,image=img)
    label1.image = img          #add extra stuff in screen
    label1.pack()
    st1=st.mean(temp1) ##### case avg
    st2=st.mean(temp2)
    lb1=tk.Label(topEst,text="Average Covid case per month:",fg="yellow",
                  bg="black",font=("Times New Roman",18))
    lb1.place(x=5,y=100)
    lbl1=tk.Label(topEst,text=st1,fg="yellow",bg="black",font=("Times New
Roman",18))
    lbl1.place(x=5,y=200)
    lb2=tk.Label(topEst,text="Average Number of deaths due to covid per
month:",
                  fg="yellow",bg="black",font=("Times New Roman",18))
    lb2.place(x=5,y=300)
    lbl2=tk.Label(topEst,text=st2,fg="yellow",bg="black",font=("Times New
Roman",18))
    lbl2.place(x=5,y=300)

    bt=tk.Button(topEst,text="Close",width=5,height=3,fg="green",bg="white",
                  font=("Times New Roman",18),command=topEst.destroy())
    bt.place(x=5,y=500)

    button=tk.Button(topEnxt,text="next",width=5,height=1,bg="green",fg="yellow",
                     font=("Times New
Roman",20),command=lambda:[topEnxt.destroy(),stat()])
    button.place(x=1400,y=600)
plt.style.use('seaborn')
topE5=tk.Tk()
topE5.geometry("2000x2000")
topE5.title("graph")
width=2000

```

```

height=2000
matplotlib.use('TkAgg')
f = Figure(figsize=(5,5), dpi=100)
a = f.add_subplot(111)
dates = [
    datetime(2020, 2, 1),
    datetime(2020, 3, 1),
    datetime(2020, 4, 1),
    datetime(2020, 5, 1),
    datetime(2020, 6, 1),
    datetime(2020, 7, 1),
    datetime(2020, 8, 1),
    datetime(2020, 9, 1),
    datetime(2020, 10, 1),
    datetime(2020, 11, 1),
    datetime(2020, 12, 1),
    datetime(2021, 1, 1),
    datetime(2021, 2, 1),
    datetime(2021, 3, 1),
    datetime(2021, 4, 1),
    datetime(2021, 5, 1),
    datetime(2021, 6, 1),
    datetime(2021, 7, 1),
    datetime(2021, 8, 1),
    datetime(2021, 9, 1),
    datetime(2021, 10, 1),
    datetime(2021, 11, 1),
    datetime(2021, 12, 1),
    datetime(2022, 1, 1),
    datetime(2022, 2, 1),
    datetime(2022, 3, 1),
    datetime(2022, 4, 1),
    datetime(2022, 5, 1),
    datetime(2022, 6, 1),
    datetime(2022, 7, 1),
    datetime(2022, 8, 1),
    datetime(2022, 9, 1),
    datetime(2022, 10, 1),
]

y = [3,20,600,2400,
      8800,20000,52000,78000,
      80000,39000,36000,16000,
      12000,15000,92000,400000,
      130000,45000,40000,30000,
      20000,10000,5000,100000,

```

```

        350000,75000,5000,2500,
        20000,2000,5000,2500,
        500
    ]
    temp1=y
    figure = Figure(figsize=(6, 4), dpi=100)
    figure_canvas = FigureCanvasTkAgg(figure, topE5)
    NavigationToolbar2Tk(figure_canvas, topE5)
    axes = figure.add_subplot()
    axes.plot(dates,y)
    axes.plot(dates, y,linestyle='solid')
    plt.gcf().autofmt_xdate()
    date_format=mpl_dates.DateFormatter('%b,%m,%Y')
    axes.set_title('Covid 19 daily case average per month in India')
    axes.set_ylabel('Cases')
    figure_canvas.get_tk_widget().pack(side=tk.TOP, fill=tk.BOTH, expand=1)

button=tk.Button(topE5,text="next",width=5,height=1,bg="green",fg="yellow",
                 font=("Times New
Roman",20),command=lambda:[topE5.destroy(),graphnxt()])
    button.place(x=1400,y=600)
def fac1():
    fac=tk.Toplevel(topE)
    fac.geometry("2000x2000")
    fac.title("About us")
    width=2000
    height=2000
    image = Image.open("hospital6.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(fac,image=img)
    label1.image = img
    label1.pack()
def next1():
    fac1=tk.Toplevel(fac)
    fac1.geometry("2000x2000")
    fac1.title("About us")
    width=2000
    height=2000
    image = Image.open("hospital4.jpg")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(fac1,image=img)
    label1.image = img
    label1.pack()
def next2():

```

```

        fac2=tk.Toplevel(fac1)
        fac2.geometry("2000x2000")
        fac2.title("About us")
        width=2000
        height=2000
        image = Image.open("hospital18.jpg")
        resize_image = image.resize((width, height))
        img = ImageTk.PhotoImage(resize_image)
        label1 = tk.Label(fac2,image=img)
        label1.image = img
        label1.pack()
        b3=tk.Button(fac2,text="Back",width=4,height=4,bg="white",
                    fg="green",font=("Times New
Roman",20),command=fac2.destroy)
        b3.place(x=700,y=700)
        b2=tk.Button(fac1,text="Next",width=4,height=4,bg="white",
                    fg="green",font=("Times New Roman",20),command=next2)
        b2.place(x=700,y=700)
        b4=tk.Button(fac1,text="Back",width=4,height=4,bg="white",
                    fg="green",font=("Times New Roman",20),command=fac1.destroy)
        b4.place(x=400,y=700)
        b1=tk.Button(fac,text="Next",width=4,height=4,bg="white",
                    fg="green",font=("Times New Roman",20),command=next1)
        b1.place(x=700,y=700)
        b4=tk.Button(fac,text="Back",width=4,height=4,bg="white",
                    fg="green",font=("Times New Roman",20),command=fac.destroy)
        b4.place(x=400,y=700)
def doc1():
    url="https://www.askapollo.com/physical-appointment"
    wb.open_new_tab(url)
def fb():
    url="https://www.apollohospitals.com/apollo-hospitals-reviews/"
    wb.open_new_tab(url)
def awards():
    url="https://www.apollohospitals.com/corporate/awards-
accolades/management/"
    wb.open_new_tab(url)
topE=tk.Toplevel(topA)
topE.geometry("2000x2000")
topE.title("About us")
width=2000
height=2000
image = Image.open("hospital6.png")    #add image
resize_image = image.resize((width, height))
img = ImageTk.PhotoImage(resize_image)
label1 = tk.Label(topE,image=img)

```

```

label1.image = img          #add extra stuff in screen
label1.pack()
b1=tk.Button(topE,text="Distinguished doctors",width=20,height=3,
              bg="white",fg="green",font=("Times New Roman",20),command=doc1)
b1.place(x=200,y=100)
b2=tk.Button(topE,text="Awards",width=20,height=3,bg="white",
              fg="green",font=("Times New Roman",20),command=awards)
b2.place(x=600,y=100)
b3=tk.Button(topE,text="Facilities",width=20,height=3,bg="white",
              fg="green",font=("Times New Roman",20),command=fac1)
b3.place(x=200,y=500)
b4=tk.Button(topE,text="People who trust
us",width=20,height=3,bg="white",fg="green",font=("Times New
Roman",20),command=fb)
b4.place(x=600,y=500)
b5=tk.Button(topE,text="Statistics",width=20,height=3,bg="white",
              fg="green",font=("Times New Roman",20),command=graph)
b5.place(x=1000,y=500)
b3=tk.Button(topA,text="About Us",width=10,height=2,bg="yellow",
              fg="red",font=("Times New Roman",18),command=open5)
b3.place(x=800,y=400)
def open6():
    topF=tk.Toplevel(topA)
    topF.geometry("2000x2000")
    topF.title("My details")
    width=2000
    height=2000
    image = Image.open("hospital7.jpg")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(topF,image=img)
    label1.image = img
    label1.pack()
def histsub():
    global un
    mydb = sql.connect(host='localhost',
                        database='avm',
                        username='root',
                        password='Vishvak03$'
                        )
    cursor=mydb.cursor()
    hd=hist1.get()
    cd=hist2.get()
    alg=hist3.get()
    vc=hist4.get()

```



```

        ins="insert into pahistory (username,hd,cd,allergies,vaccine) values
(%s,%s,%s,%s,%s)"
        data=(un,hd,cd,alg,vc)
        cursor.execute(ins,data)
        mydb.commit()
        mydb.close()
def history():
    hist=tk.Toplevel(topF)
    hist.geometry("2000x2000")
    hist.title("My details")
    width=2000
    height=2000
    image = Image.open("hospital7.jpg")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(hist,image=img)
    label1.image = img
    label1.pack()
    lbl=tk.Label(hist,text="Enter the following details:",fg="purple",
                  bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    lbl1=tk.Label(hist,
                  text="If you have any hereditary disease\nplease enter:",
                  fg="blue",font=("Times New Roman",32))
    lbl1.place(x=5,y=150)
    txtfld1=tk.Entry(hist,bd=5,width=50,textvariable = hist1,font=("Times New
Roman",24))
    txtfld1.place(x=650,y=150)
    lbl2=tk.Label(hist,text="If you have any chronic disease\nplease enter:",
                  fg="blue",font=("Times New Roman",32))
    lbl2.place(x=5,y=280)
    txtfld2=tk.Entry(hist,bd=5,width=50,textvariable = hist2,font=("Times New
Roman",24))
    txtfld2.place(x=650,y=280)
    lbl3=tk.Label(hist,text="If you have any allergies\nplease Enter:",
                  fg="blue",font=("Times New Roman",32))
    lbl3.place(x=5,y=410)
    txtfld3=tk.Entry(hist,bd=5,width=50,textvariable = hist3,font=("Times New
Roman",24))
    txtfld3.place(x=650,y=410)
    lbl4=tk.Label(hist,text="Are you vaccinated for Covid 19?:",
                  fg="blue",font=("Times New Roman",32))
    lbl4.place(x=5,y=540)
    txtfld4=tk.Entry(hist,bd=5,width=50,textvariable = hist4,font=("Times New
Roman",24))
    txtfld4.place(x=650,y=540)

```

```

        but=tk.Button(hist,
                        text="submit",width=10,height=4,bg="blue",
                        fg="yellow",font=("Times New Roman",32),
                        command=lambda:[histsub(),hist.destroy()])
        but.place(x=750,y=670)
        b1=tk.Button(topF,text="My History",width=20,height=4,bg="blue",
                      fg="yellow",font=("Times New Roman",20),command=history)
        b1.place(x=200,y=100)
        b2=tk.Button(topF,text="Return to Homepage",width=20,height=4,bg="blue",
                      fg="yellow",font=("Times New Roman",20),command=topF.destroy)
        b2.place(x=200,y=600)
        b4=tk.Button(topA,text="My Details",width=10,height=2,bg="yellow",fg="red",
                      font=("Times New Roman",18),command=open6)
        b4.place(x=400,y=400)
        bclose=tk.Button(topA,text="Back",width=10,height=2,bg="yellow",fg="red",
                          font=("Times New Roman",18),command=topA.destroy)
        bclose.place(x=400,y=200)
        topA.mainloop()
def submit2(n):
    global top
    global det
    cond=txtfld4.get()
    c=n.get()
    mydb = sql.connect(host='localhost',
                        database='avm',
                        username='root',
                        password='Vishvak03$'
                        )
    cursor=mydb.cursor()
    cursor.execute("select * from client;")
    data=cursor.fetchall()
    li=data[0]
    cid=0
    while True:
        cid=random.randint(0,1000)
        if cid in li:
            continue
        else:
            break
    det.append(cid)
    det.append(c)
    det.append(cond)
    mydb.close()
    txtfld4.set("")
def redirect():
    global window

```

```

screen=tk.Toplevel(window)
screen.geometry("2000x2000")
width=2000
height=2000
screen.title("Redirect page")
image = Image.open("hospital.png")
resize_image = image.resize((width, height))
img = ImageTk.PhotoImage(resize_image)
label1 = tk.Label(screen,image=img)
label1.image = img
label1.pack()
label2=tk.Label(screen,
    text="To browse the facilities of the application, click BROWSE below\n
To book appointments, close the applicaion and SIGN IN:",
    fg="yellow",bg="black",font=("Times New Roman",18))
label2.place(x=200,y=300)
bt=tk.Button(screen,text="CLOSE",width=10,height=5,fg="yellow",bg="black",
    font=("Times New Roman",18),command=window.destroy)
bt.place(x=500,y=500)
bt1=tk.Button(screen,
text="BROWSE",width=10,height=5,fg="yellow",bg="black",
    font=("Times New Roman",18),command=open1a)
bt1.place(x=700,y=500)
def open1b():
    global un
    global top
    un=txtfld2a.get()
    topB=tk.Toplevel(window)
    topB.geometry("2000x2000")
    topB.title("Sign up: page 2")
    width=2000
    height=2000
    image = Image.open("hospital.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(topB,image=img)
    label1.image = img
    label1.pack()
    lbl1=tk.Label(topB,text="Enter medical details:",fg="purple",
        bg="yellow",font=("Times New Roman",32))
    lbl1.place(x=5, y=20)
    lbl2=tk.Label(topB,text="Gender:",fg="blue",font=("Times New Roman",32))
    lbl2.place(x=5,y=100)
    def sel():
        global det
        s=var1.get()

```

```

        selection = "You selected the option " + s
        s=s[0]
        label.config(text = selection)
        det.append(s)
    var1 = tk.StringVar()
    R1 = tk.Radiobutton(topB, text="Male",fg="blue",font=("Times New Roman",24),
        variable=var1, value="Male",command=sel)
    R1.place(x=340,y=100)
    R2 = tk.Radiobutton(topB, text="Female",fg="blue",font=("Times New
Roman",24),
        variable=var1, value="Female",command=sel)
    R2.place(x=600,y=100)
    label = tk.Label(topB,fg="purple",font=("Times New Roman",18))
    label.place(x=340,y=180)
    lbl3=tk.Label(topB,text="Blood Group:",fg="blue",font=("Times New
Roman",32))
    lbl3.place(x=5,y=260)
    n = tk.StringVar()
    bldg = ttk.Combobox(topB, width = 27, textvariable = n)
    bldg['values'] = ('A+','O+','B+','AB+','A-','O-','B-','AB-')
    bldg.place(x=340,y=280)
    lbl4=tk.Label(topB,text="Enter specific \nmedical condition \n(if any):",
        fg="blue",font=("Times New Roman",32))
    lbl4.place(x=5,y=360)
    txtfld1=tk.Entry(topB,bd=5,width=50,textvariable = txtfld4,
        font=("Times New Roman",24))
    txtfld1.place(x=340,y=400)
    bt1=tk.Button(topB,
        text="Confirm",width=10,height=2,fg="black",
        font=("Times New Roman",14),command=lambda:[redirect(),submit2(n)])
    bt1.place(x=400,y=660)
    bt2=tk.Button(topB,text="Back",width=10,height=2,
        fg="black",font=("Times New Roman",14),command=topB.destroy)
    bt2.place(x=800,y=660)
    topB.mainloop()
def pwinc():
    global top
    messagebox.showerror("password incorrect!","Password incorrect! Try again!")
    top.destroy()
def usernotfound():
    global top
    messagebox.askretrycancel("not found","Username not found. Please go SIGN
UP")
    top.destroy()
def submit():
    mydb = sql.connect(host='localhost',

```

```

        database='avm',
        username='root',
        password='Vishvak03$'
    )
global un
cursor=mydb.cursor()
name=txtfl2.get()
password=txtfl3.get()
cursor.execute("select * from client;")
data=cursor.fetchall()
for i in data:
    if name == i[2]:
        print("Username found")
        if password == i[3]:
            print("logged in successfully")
            un=name
            open1a()
        else:
            print("password incorrect")
            pwinc()
        break
    elif name != i[2]:
        continue
else:
    print("Username not registered")
    usernotfound()
mydb.close()
txtfl2.set("")
txtfl3.set("")
def open1():#login
    global top
    top=tk.Toplevel(window)
    top.geometry("2000x2000")
    top.title("Sign in")
    width=2000
    height=2000
    image = Image.open("hospital.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(top,image=img)
    label1.image = img
    label1.pack()
    lbl1=tk.Label(top,text="Enter credentials:",fg="purple",
        bg="yellow",font=("Times New Roman",32))
    lbl1.place(x=5, y=20)
    lbl2=tk.Label(top,text="Enter Username:",fg="blue",

```

```

        font=("Times New Roman",32))
lbl2.place(x=5,y=100)
txtfld2=tk.Entry(top,textvariable = txtfl2,bd=5,width=50,
        font=("Times New Roman",24))
txtfld2.place(x=340,y=100)
lbl3=tk.Label(top,text="Enter Password:",fg="blue",
        font=("Times New Roman",32))
lbl3.place(x=5,y=180)
txtfld3=tk.Entry(top,textvariable = txtfl3,bd=5,width=50,
        show="*",font=("Times New Roman",24))
txtfld3.place(x=340,y=180)
bt1=tk.Button(top,text="Confirm",width=10,height=2,fg="black",
        font=("Times New Roman",14),command=submit)
bt1.place(x=340,y=260)
bt2=tk.Button(top,text="Back",width=10,height=2,fg="black",
        font=("Times New Roman",14),command=top.destroy)
bt2.place(x=800,y=260)
top.mainloop()
def submit1(m):
    global det
    email=txtfld1a.get()
    username=txtfld2a.get()
    password=txtfld3a.get()
    mydb = sql.connect(host='localhost',
        database='avm',
        username='root',
        password='Vishvak03$'
    )
    cursor=mydb.cursor()
    fname=txtfld4a.get()
    mob=txtfld5a.get()
    city=m.get()
    det.append(email)
    det.append(username)
    det.append(password)
    det.append(fname)
    det.append(mob)
    det.append(city)
    print(det)
    ins="insert into
client(cust_id,email_id,username,paswrd,dob,fullname,mob,city,gender,bloodgrp,special) values (%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)"
    data=(det[2],det[5],det[6],det[7],det[0],
        det[8],det[9],det[10],det[1],
        det[3],det[4])
    cursor.execute(ins,data)

```

```

mydb.commit()
mydb.close()
txtfld1a.set("")
txtfld2a.set("")
txtfld3a.set("")
txtfld4a.set("")
txtfld5a.set(0)
def my_upd(cal,ll):
    global text
    global det
    text=cal.get_date()
    ll.config(text=cal.get_date())
    det.append(text)
def open2():
    top1=tk.Toplevel(window)
    top1.geometry("2000x2000")
    top1.title("Sign up")
    width=2000
    height=2000
    image = Image.open("hospital.png")
    resize_image = image.resize((width, height))
    img = ImageTk.PhotoImage(resize_image)
    label1 = tk.Label(top1,image=img)
    label1.image = img
    label1.pack()
    lbl=tk.Label(top1,text="To create an account, enter the following details:",
                  fg="purple",bg="yellow",font=("Times New Roman",32))
    lbl.place(x=5, y=20)
    lbl1=tk.Label(top1,text="Enter Email id:",fg="blue",
                  font=("Times New Roman",32))
    lbl1.place(x=5,y=100)
    txtfld1=tk.Entry(top1,bd=5,width=50,textvariable = txtfld1a,
                    font=("Times New Roman",24))
    txtfld1.place(x=340,y=100)
    lbl2=tk.Label(top1,text="Enter Username:",fg="blue",
                  font=("Times New Roman",32))
    lbl2.place(x=5,y=180)
    txtfld2=tk.Entry(top1,bd=5,width=50,textvariable = txtfld2a,
                    font=("Times New Roman",24))
    txtfld2.place(x=340,y=180)
    lbl3=tk.Label(top1,text="Enter Password:",fg="blue",
                  font=("Times New Roman",32))
    lbl3.place(x=5,y=260)
    txtfld3=tk.Entry(top1,bd=5,width=50,show="*",textvariable = txtfld3a,
                    font=("Times New Roman",24))
    txtfld3.place(x=340,y=260)

```

```

lbl4=tk.Label(top1,text="Enter Date of Birth:",fg="blue",
              font=("Times New Roman",32))
lbl4.place(x=5,y=340)
cal=cal.DateEntry(top1,fg="red",bg="yellow")
cal.place(x=400,y=360)
l1=tk.Label(top1,text='data',bg='yellow')
l1.place(x=800,y=360)
b0=tk.Button(top1,text='Read', command=lambda:my_upd(cal,l1))
b0.place(x=600,y=360)
lbl5=tk.Label(top1,text="Enter Full Name:",fg="blue",
              font=("Times New Roman",32))
lbl5.place(x=5,y=420)
txtfld5=tk.Entry(top1,bd=5,width=50,textvariable = txtfld4a,
                 font=("Times New Roman",24))
txtfld5.place(x=340,y=420)
lbl6=tk.Label(top1,text="Enter mobile no:",fg="blue",
              font=("Times New Roman",32))
lbl6.place(x=5,y=500)
txtfld6=tk.Entry(top1,bd=5,width=50,textvariable = txtfld5a,
                 font=("Times New Roman",24))
txtfld6.place(x=340,y=500)
lbl7=tk.Label(top1,text="Enter city:",fg="blue",
              font=("Times New Roman",32))
lbl7.place(x=5,y=580)
m = tk.StringVar()
city= ttk.Combobox(top1, width = 27, textvariable = m)
city['values'] = ('Chennai','Mumbai','Delhi',
                 'Bangalore','Kolkata','Hyderabad',
                 'Ahmedabad','Kochin','Pune','Lucknow')
city.current()
city.place(x=340,y=580)
bt1=tk.Button(top1,text="Next",width=10,height=2,fg="black",
              font=("Times New Roman",14),
              command=lambda:[open1b(),submit1(m)])
bt1.place(x=340,y=660)
bt2=tk.Button(top1,text="Back",width=10,height=2,fg="black",
              font=("Times New Roman",14),command=top1.destroy)
bt2.place(x=800,y=660)
top1.mainloop()
button=tk.Button(window,text="SIGN IN",width= 25,height=10,
                 fg="green",bg="white",font=("Times New Roman",24),
                 command=open1)
button.place(x=80,y=200)
bt=tk.Button(window,text="SIGN UP",width= 25,height=10,
             fg="green",bg="white",font=("Times New Roman",24),
             command=open2)

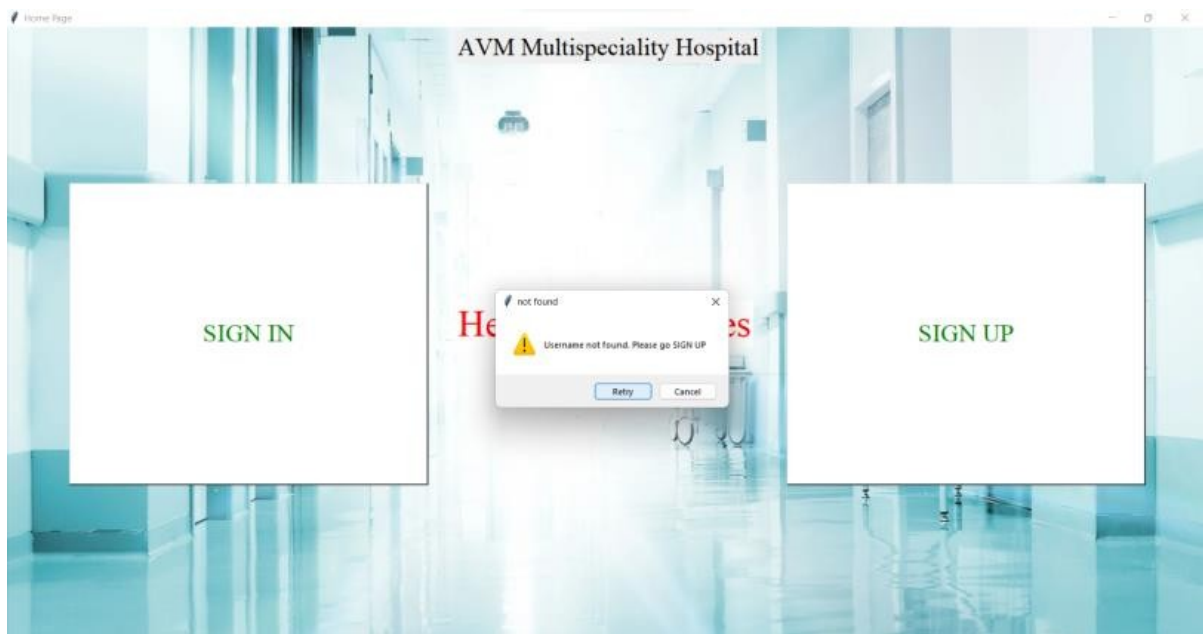
```



```
bt.place(x=1000,y=200)  
window.mainloop()
```

OUTPUT





Sign up

To create an account, enter the following details:

Enter Email id:

Enter Username:

Enter Password:

Enter Date of Birth:

Enter Full Name:

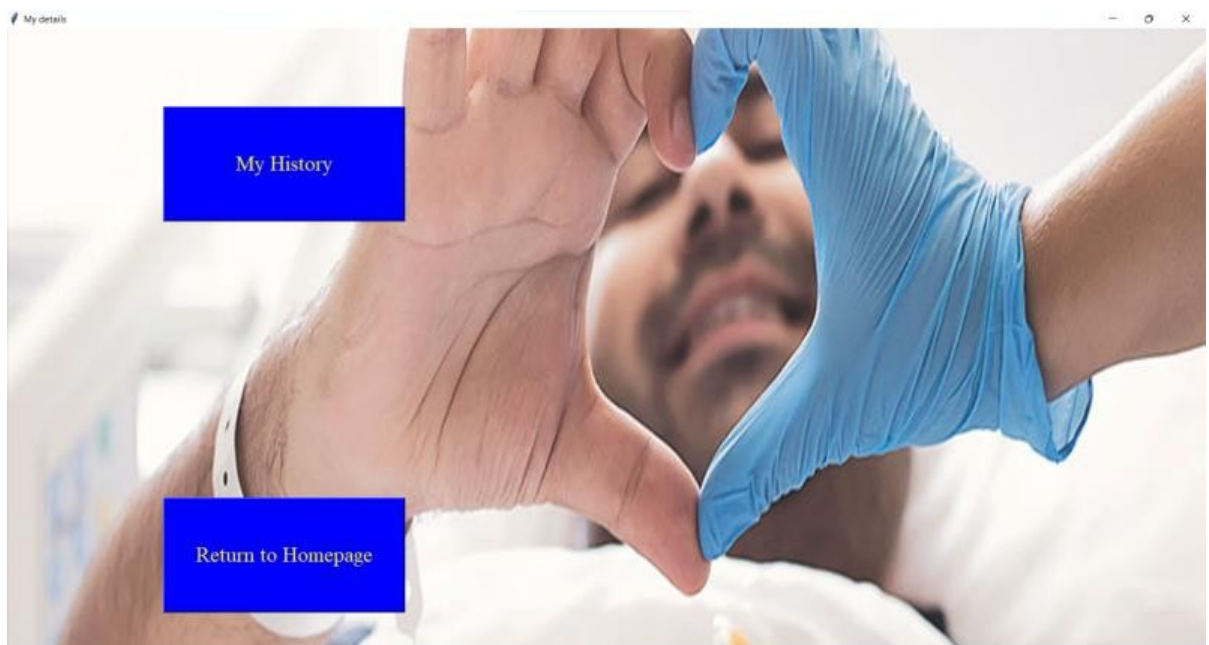
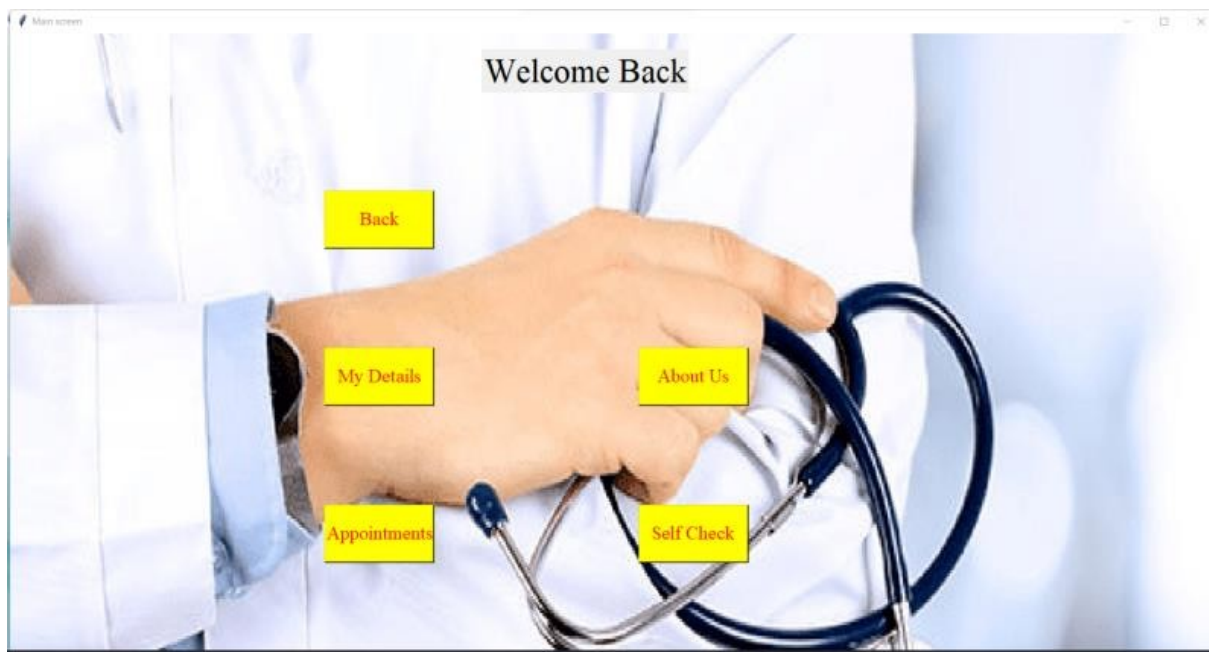
Enter mobile no:

Enter city:

Next Back

data

December 2022						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
48	28	29	30	1	2	3
49	5	6	7	8	9	10
50	12	13	14	15	16	17
51	19	20	21	22	23	24
52	26	27	28	29	30	31
1	2	3	4	5	6	7



My details

Enter the following details:

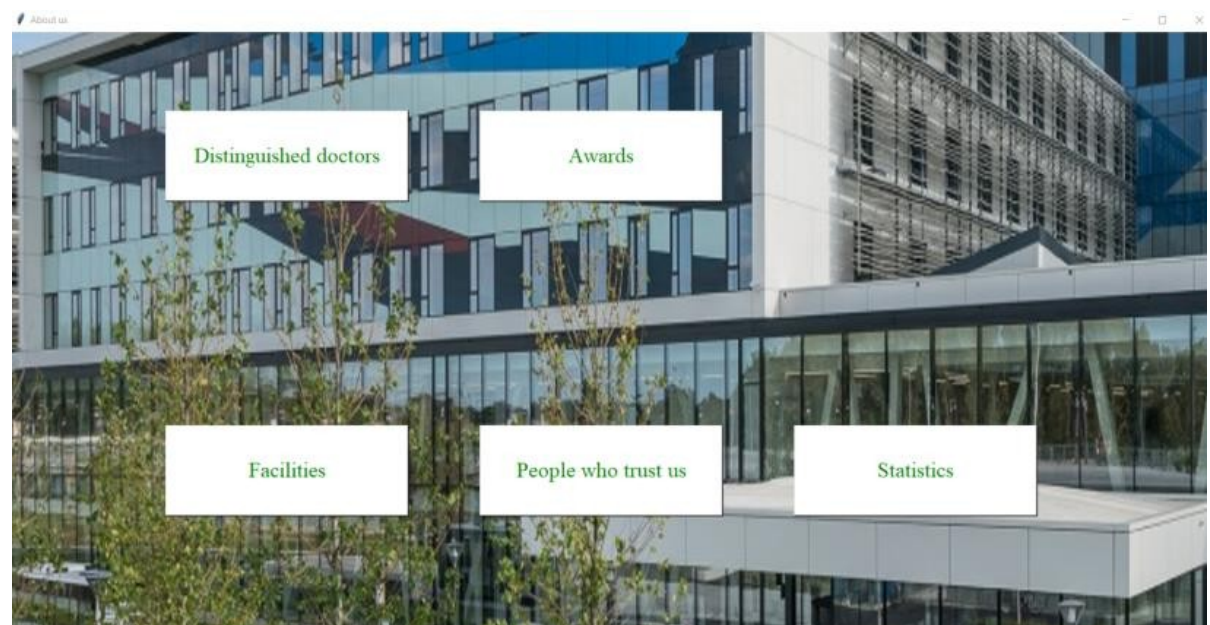
If you have any hereditary disease please enter:

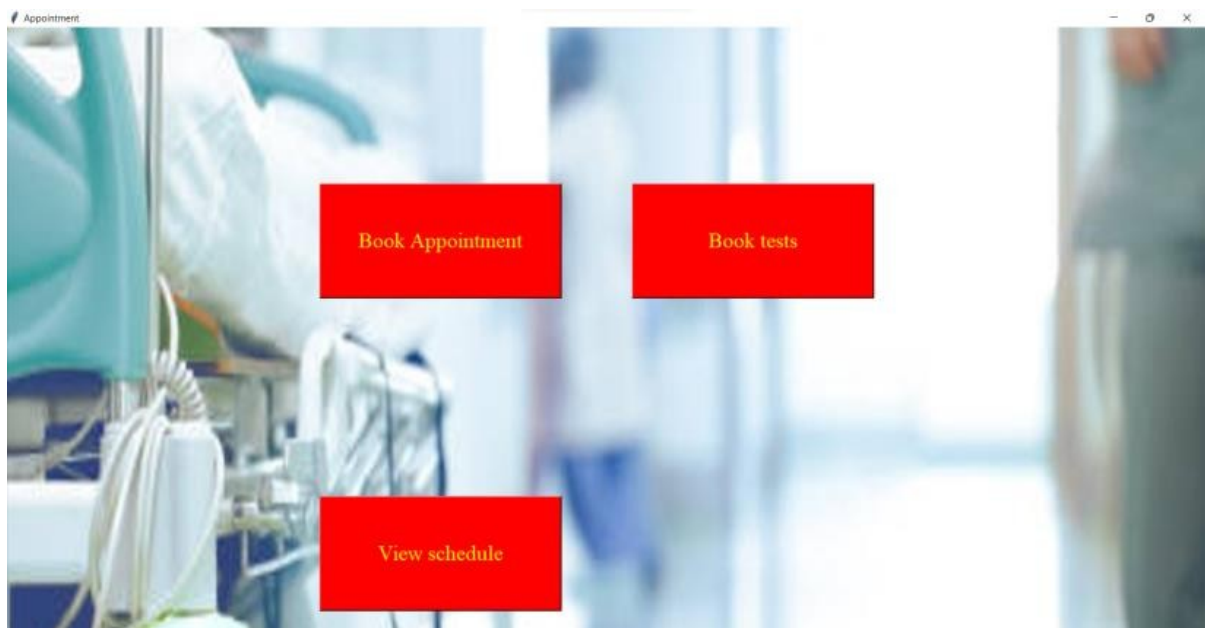
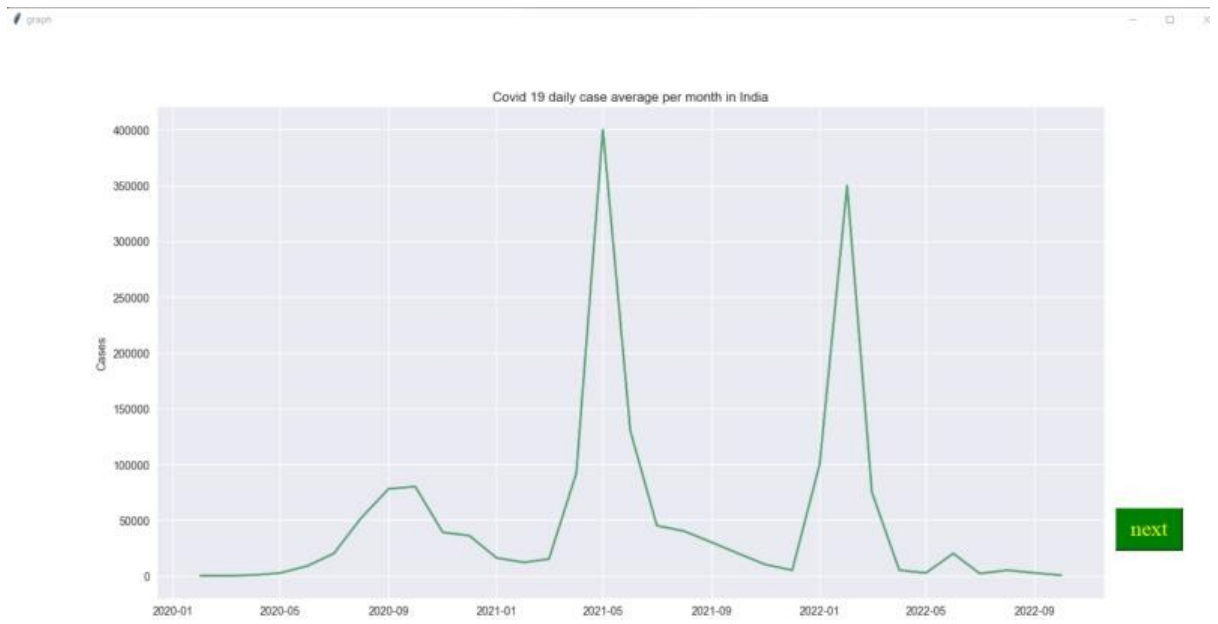
If you have any chronic disease please enter:

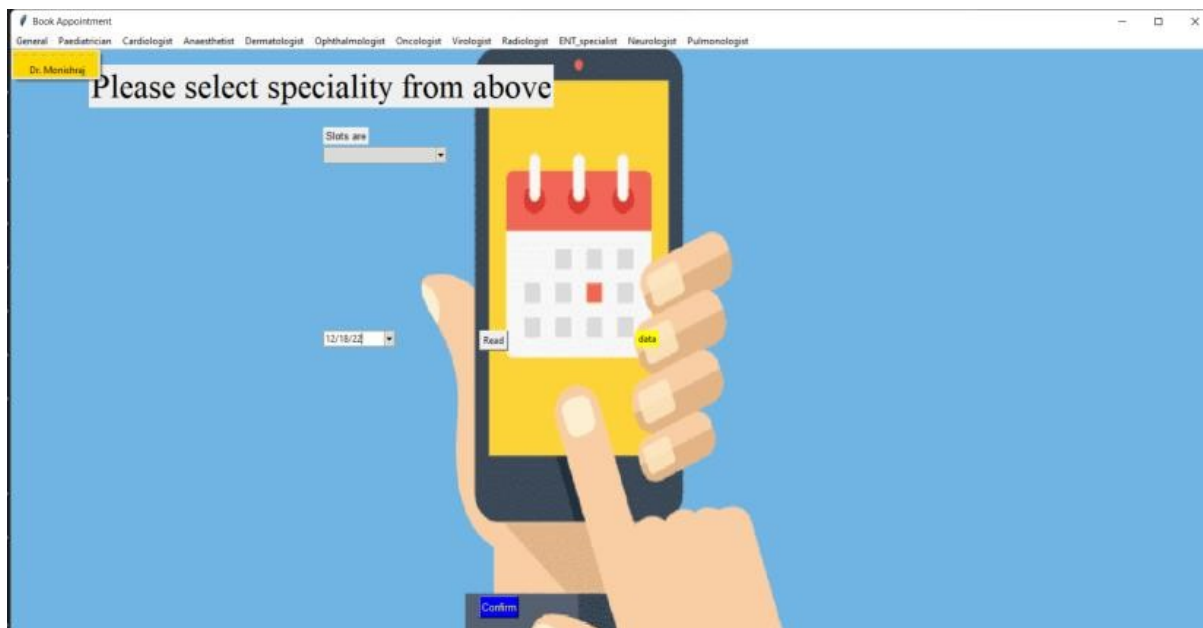
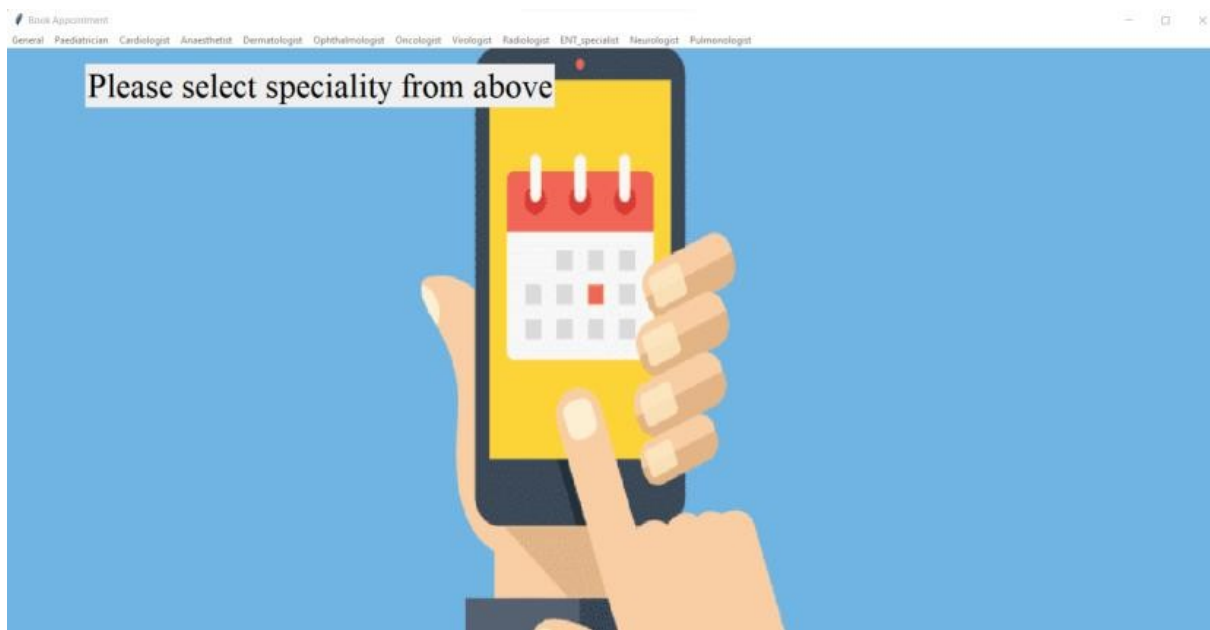
If you have any allergies please Enter:

Are you vaccinated for Covid 19?:

submit





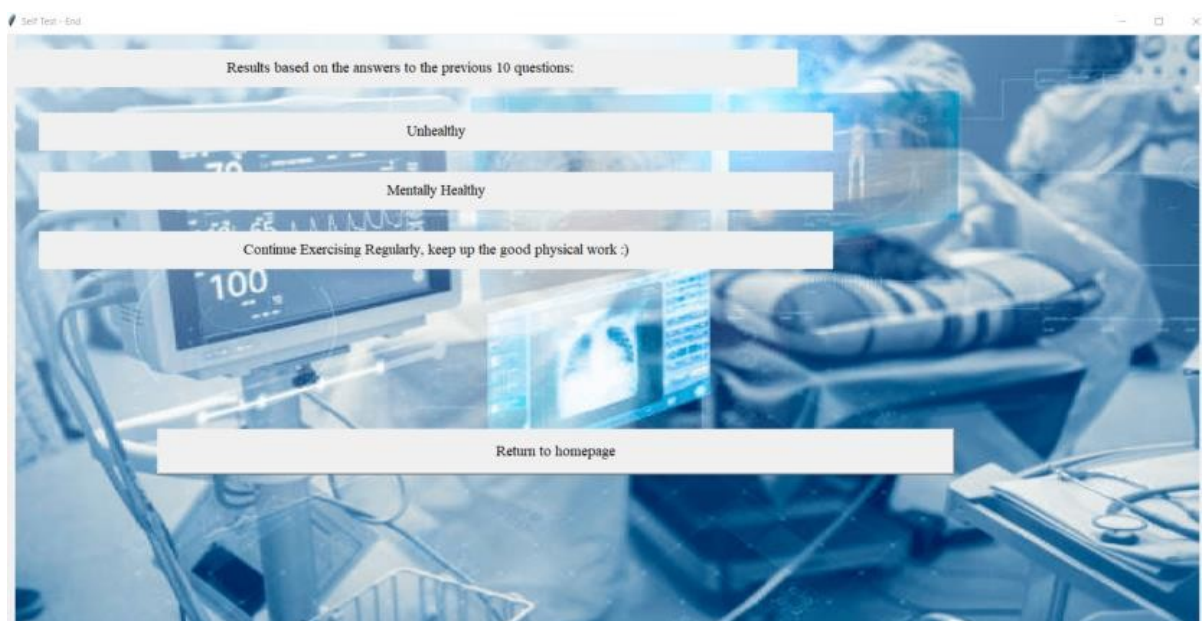
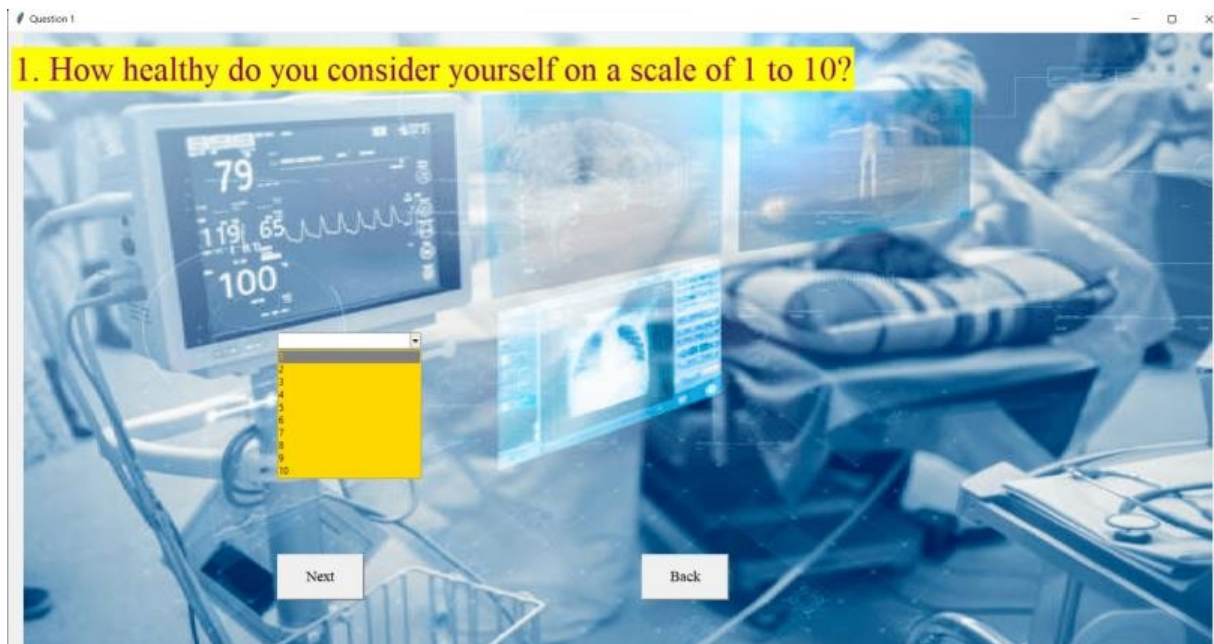




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	Chief Doctors	Speciality	From	To
0	Dr. Monishraj	General	09:00:00	12:00:00
1	Dr. Haren	Pediatrician	09:00:00	10:00:00
2	Dr. Pranav	ENT specialist	09:30:00	12:30:00
3	Dr. Varsha	Ophthalmologist	10:00:00	13:00:00
4	Dr. Jaideep	Dermatologist	10:30:00	21:00:00
5	Dr. Vignesh	Anesthetist	17:00:00	19:00:00
6	Dr. Sarini	Oncologist	15:30:00	18:00:00
7	Dr. Chirag	Virologist	19:30:00	22:00:00
8	Dr. Shreya	Radiologist	17:30:00	19:30:00
9	Dr. Manavh	Cardiologist	18:00:00	20:00:00
10	Dr. Sidhanth	Neurologist	18:30:00	21:30:00
11	Dr. Darshan	Pulmonologist	19:00:00	22:00:00





Question 1

1. If you need to call 911 in an emergency, what should you tell the dispatcher?

- ☒ A. Describe the emergency
- ☒ B. Give your name and the telephone number of the phone you are using to make the call
- ☒ C. Give the exact address where the emergency occurred
- ☒ D. All of the above.

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Question 2

2. If a person has a bleeding wound, what should you do?

- ☒ A. Apply a tourniquet right away
- ☐ B. Cover the wound with a clean cloth
- ☐ C. Put continuous pressure on the wound with the palm of your hand
- ☐ D. B and C.

You selected the option A

The correct option is D. B and C.

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CONCLUSION

In conclusion, the computer science hospital management system is an essential tool for streamlining the operations of any medical institution. It automates many of the processes involved in managing patient records, appointments, and self-evaluation. By providing a secure and efficient system, it enables hospitals to deliver higher quality care and improved patient satisfaction. The system also offers cost savings, as it eliminates the need for manual paperwork and data entry. Ultimately, this system is a valuable asset for any medical institution.