Python course project viva notes

MySQL –

database = DBConnect(host='localhost', user='root', password='Pass@123', database='rest2019')

- This command is used to connect with mysql server bu t here we have mot mentioned ip and port number because it is running on local machine

new_user = {'Recieptnumber': receiptnumber,'email': email,'subtotal': sumstr,'discount': disstr,'totalcost': totalcoststr,'datei': localtime}

- This command is used to create a dictionary by taking values entered by user

database.insert(new_user,'newhotelpune')

- This is used enter data into database
- new_user is dictionary while newhotelpune is table name in database

mycursor=mydb.cursor()

- this provide pointer in mysql
- so mycurser is just a pointer in database

SELECT Recieptnumber, email, subtotal, discount, totalcost, datei FROM newhotelpune

- this is mysql command which is used to querying the data from table
- Recieptnumber, email, subtotal, discount, totalcost, datei are just column names in table

mycursor.execute(query)

- This will execute our mysql command
- Now all the data has been stored in mycurser

```
for(Recieptnumber, email, subtotal, discount, totalcost, datei) in mycursor:
        s="{}          {}          {}          {}          {}
{}".format(Recieptnumber, subtotal, discount, totalcost, datei, email)
        istbox.insert(0,s)
```

- This will print all the rows one by one

SMTP –

mail= smtplib.SMTP('smtp.gmail.com',587)

- This provides connection to smtp server
- Here smtp.gmail.com is hostname or name of server
- And 587 is port no of that server

mail.ehlo()

- This command is USed to identify client by server, prompting server for supported features
- So by this server can identify us

mail.starttls()

- Put the SMTP connection in TLS (Transport Layer Security) mode to encode or enscript message because gmail doesn't allow any unsecure message transfer

mail.login('restaurantmanager67@gmail.com','Pass@123')

- This will login to our gmail account

mail.sendmail('restaurantmanager67@gmail.com',email,totcontaint)

- This command is iused to send mail to customer
- Where email is variable defined which stores email of customer

- And totcontaint is variable which strores bill, date and other data

Tkinter

root = Tk()

- Creates new tkinter window

txt_servicetax.delete('1.0',END)

- Clear all the data from textbox

root.destroy()

- Used to close current window

a=(dal.get());

- Used to collect value from entrybox (value entered by user)

txt_totalprint.insert('5.0',aemail)

- Used to insert the string named “aemail’’ in textbox
- While 5.0 is preference number

msg=messagebox.askyesno("Restaurant Management System","Do You Want To Proceed to payment?")

- This is messsagebox asks user to proceed
- ("Restaurant Management System"is window name of messagebox
- "Do You Want To Proceed to payment?") is message for user

Showinfo type of messagebox shows info type messages to user

While showerror type of messagebox shows errors to user

```
root.geometry("1566x835+-20+10")
root.title("Restaurant Management System")
root.configure(background="#777777")
```

this will creates gui window of specific parameters

i.e. height = 835 pixel

width= 1566 pixel

-20 = x-coordinate

10= y-coordinatr

relx=(relative x co-ordinate i.e. x coordinate related with parent here in this case parent is tk window)

(later on I will tell show how to calculate retative measures)

rely=(relative y co ordinate)

relheight=(relative hight)

relwidth= relative width)

background="#474747"

used to define background colour in in workspace module it is grey but in main window It is blue

font=font10

defines font of lable

here font 10 is variable which stores font name, font size, bold/italic/underline like parameters

foreground="#fff23d"

- defines font colour

text="'Restaurant Management System"'

- this is text that we have to print in gui window
- this is also parameter of label widget

borderwidth="10"

width of the border of frame

relief='ridge'

- used to define relief e.g. flat, ridge, groove , raised

width=475

used to define width of project

btn_total.configure(command=bills)

this command is used to call the function defined as

```
def bills() :
    <statement1>
    <statement2>
```

Normally we calls the function by bills() but here we only have to mention function name

root.mainloop()

- this command works like while loop
- otherwise python will creates gui window and destroys it
- we have to run this gui for long time so this command is used here

{you can test it by removing this command. You will get to know python will creates that gui and destroys it within few millisecods}

os._exit(1)

- this command is used to close whole application
- i.e. this is exit command

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