CERTIFICATE

THIS IS TO CERTIFY THAT THIS PROJECT WORK IS SUBMITTED BY **ATUL** *TO THE COMPUTER SCIENCE DEPARTMENT OF* **KENDRIYA VIDYALAYA SEC-3, ROHINI, DELHI – 110085** *WAS CARRIED OUT BY THEM UNDER THE GUIDANCE & SUPERVISION DURING ACADEMIC YEAR 2019-20.*

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(PGT COMPUTER SCIENCE)

ACKNOWLEDGEMENT

I WISH TO EXPRESS MY DEEP GRATITUDE AND SINCERE THANKS TO PRINCIPAL, MRS **MITA ADHIKAARI,** KENDRIYA VIDYALAYA SEC-3 ROHINI, FOR HIS ENCOURAGEMENT AND FOR ALL THE FACILITIES THAT HE PROVIDED FOR THIS PROJECT WORK. I EXTEND MY HEARTY THANKS TO MRS. NEELIMA SINGH, (COMPUTER SCIENCE TEACHER) WHO GUIDED ME TO THE SUCCESSFUL COMPLETION OF THIS PROJECT.

I TAKE THIS OPPORTUNITY TO EXPRESS MY DEEP SENSE OF GRATITUDE FOR THIS INVALUABLE GUIDANCE, CONSTANT ENCOURAGEMENT, CONSTRUCTIVE COMMENTS WHICH HAS SUSTAINED MY EFFORTS AT ALL STAGES OF THIS PROJECT.

I CAN'T FORGET TO OFFER MY SINCERE THANKS TO MY CLASSMATES WHO HELPED ME TO CARRY OUT THIS PROJECT WORK SUCCESSFULLY & FOR THEIR VALUABLE ADVICE AND SUPPORT, WHICH I RECEIVED FROM THEM FROM TIME TO TIME.

ATUL

ABOUT THE PROJECT

THIS IS A PROJECT BASED ON **"RAILWAY TICKET BOOKING AND CATERING"**. THE PROJECT HELPS US TO SELECT TRAINS AND BOOK TICKETS, ORDERING FOOD, LUGGAGE MANAGEMENT AND MAKING PAYMENT.

MOREOVER, AND MOST IMPORTANTLY, THE PROGRAM HELPS US TO ENTER PASSENGER DETAILS AND STORE IT IN A DATABASE.

PYTHON MYSQL CONNECTOR IS USED IN THIS PROJECT.

ABOUT:

MODULES USED IN THIS PROGRAM

1.) OS MODULE -- THE **OS MODULE IN PYTHON** PROVIDES FUNCTIONS FOR INTERACTING WITH THE OPERATING SYSTEM. **OS**, COMES UNDER **PYTHON'S** STANDARD UTILITY **MODULES**. THIS **MODULE** PROVIDES A PORTABLE WAY OF USING OPERATING SYSTEM DEPENDENT FUNCTIONALITY. THE *__OS__* AND *__OS.PATH__* **MODULES** INCLUDE MANY FUNCTIONS TO INTERACT WITH THE FILE SYSTEM.

2.) MYSQL.CONNECTOR -- PYTHON NEEDS A MYSQL DRIVER TO ACCESS THE MYSQL DATABASE.**MYSQL.CONNECTOR** IS USED TO ESTABLISH A CONNECTION BETWEEN PYTHON AND MYSQL DATABASE.

3.) DATETIME MODULE -- THE **DATETIME MODULE** SUPPLIES CLASSES FOR MANIPULATING DATES AND TIMES. WHILE DATE AND TIME ARITHMETIC IS SUPPORTED, THE FOCUS OF THE IMPLEMENTATION IS ON EFFICIENT ATTRIBUTE EXTRACTION FOR OUTPUT FORMATTING AND MANIPULATION. GENERAL CALENDAR RELATED FUNCTIONS.

PROJECT

```
import os
import platform
import mysql.connector
import datetime
B=[]
f=mysql.connector.connect(user='root',password='Atul2609',host='localhost')
cs=f.cursor()
cs.execute('drop database if exists passenger')
cs.execute('create database passenger')
cs.execute('use passenger')
cs.execute('create table pdata(p_name varchar(20) primary key,adrs
varchar(30),travel_date varchar(20), source varchar(15), destination
varchar(15))')
cs.execute('create table classtype(sno int(2), classtype varchar(100), price
int(10))')
cs.execute('insert into classtype values(1,"First class AC",6000)')
cs.execute('insert into classtype values(2,"Second class AC",4000)')
cs.execute('insert into classtype values(3,"Third class AC",2000)')

cs.execute('create table food(sno int(10), itemname varchar(30), rate_per_item
int(6))')
cs.execute('insert into food values(1,"coffee",20)')
cs.execute('insert into food values(2,"tea",15)')
cs.execute('insert into food values(3,"colddrink",45)')
cs.execute('insert into food values(4,"samosa",20)')
cs.execute('insert into food values(5,"milk",35)')
cs.execute('insert into food values(6,"noodles",60)')

cs.execute('create table train(tno int(6), tname varchar(100))')
cs.execute('insert into train values(12312,"NEW DELHI- MUMBAI SF EXPRESS")')
cs.execute('insert into train values(12314,"NEW DELHI- CHENNAI SF EXPRESS")')
cs.execute('insert into train values(12352,"NEW DELHI- KOLKATA SF EXPRESS")')
cs.execute('insert into train values(12382,"NEW DELHI- JAMMU SF EXPRESS")')
cs.execute('insert into train values(18764,"MUMBAI- VARANASI SF EXPRESS")')
cs.execute('insert into train values(42812,"NEW DELHI- JAIPUR SF EXPRESS")')

cs.execute('create table luggage(sno int(3), weight varchar(10), rate
int(10))')
cs.execute('insert into luggage values(1,"10kg",500)')
cs.execute('insert into luggage values(2,"20kg",1000)')
cs.execute('insert into luggage values(3,"30kg",1500)')
cs.execute('insert into luggage values(4,"50kg",2500)')
```

```
global z
def trninfo():
    print("YOU CAN CURRENTLY BOOK TRAIN FOR BOARDING STATION DELHI AND MUMBAI
ONLY VIA OUR SYSTEM")
    print("do you want to see TRAINS available: press 1 to yes")
    ch=int(input("enter your choice"))
    if ch==1:
        cs.execute('select * from train')
        row=cs.fetchall()
        for x in row:
            print(x)

def registerpass():
    L=[]
    #tno=int(input("enter trainno."))
    #L.append(tno)#
    p_name=input("enter your name")
    L.append(p_name)
    adrs=input("enter your address")
    L.append(adrs)
    travel_date=input("enter date of travel")
    L.append(travel_date)
    source=input("enter boarding station")
    L.append(source)
    destination=input("enter final station")
    L.append(destination)
    passg=(L)
    sql="insert into
pdata(p_name,adrs,travel_date,source,destination)values(%s,%s,%s,%s,%s)"
    cs.execute(sql,passg)
    f.commit()
    print("after registering the passenger pleae make the payment from the
main menu")
    cs.execute('select * from pdata')
    row=cs.fetchall()
    for x in row:
        print(x)

def classview():
    print("do you want to see class types available: press 1 to yes")
    ch=int(input("enter your choice"))
    if ch==1:
        cs.execute('select * from classtype')
        row=cs.fetchall()
        for x in row:
            print(x)

def ticketprice():
    print("We provides following CLASS TYPES to our passengers: Select yours")
    print("1. First Class AC ------> @Rs. 6000")
```

```
    print("2. First Class AC ------> @Rs. 4000")
    print("3. First Class AC ------> @Rs. 2000")
    x=int(input("enter your choice"))
    n=int(input("enter no. of passenger"))
    if(x==1):
        print("you have opted First Class AC")
        c=6000*n
    elif(x==2):
        print("you have opted Second Class AC")
        c=4000*n
    elif(x==3):
        print("you have opted Third Class AC")
        c=2000*n
    else:
        print("please select one")
    print('----------------------')
    print('**********************')
    print("Your total fare is =",c)
    print('----------------------')
    print('**********************')
    B.append(c)
    print("Are you sure you want to make payment of rs.",c,"press 1 to
continue for payment")
    ch=int(input("enter your choice"))
    if(ch==1):
        print("you can pay us via \n1.Credit/Debit Card \n2.Paytm Wallet \n3.
Net Banking \n4. Cash payment")
        pc=int(input("enter your payment method choice"))
        if(pc==1):
            print("You are paying via Debit/Credit card::")
            crdn=int(input("enter you 16/19 digit credit/debit card no."))
            doex=int(input("enter you card expiry date in format MMYYYY"))
            cvv=int(input("enter your card CVV no. printed at back of your
card"))
            fac=input("enter yours 2 Factor Authentication password to
complete your transaction")
            print("Thankyou for making payment of Rs.",c,"We have recieved
your payment and transaction has been processed")
        elif(pc==2):
            print("You are paying via Paytm Wallet::")
            pn=int(input("enter your paytm registered no."))
            psd=int(input("enter your paytm PIN"))
        elif(pc==3):
            print("You are paying via NET BANKING::")
            bnk=input("enter your bank name")
            usd=input("enter your user id")
            pswdd=input("enter your net banking password")
            fac1=input("enter yours 2 Factor Authentication password to
complete your transaction")
            print("Thankyou for making payment of Rs.",c,"\n We have recieved
your payment and transaction has been processed")
            print('------------------------------')
```

```
            print('******************************')
            print("YOUR TRANSACTION WAS SUCCESSFUL")
            print('------------------------------')
            print('******************************')
        elif(pc==4):
            print("you have to pay Rs.",c,"At your boarding station office
before boarding")
        else:
            print('----------------------------------')
            print('**********************************')
            print("your transaction has been cancelled")
            print('----------------------------------')
            print('**********************************')
    else:
        print('----------------------------------')
        print('**********************************')
        print("YOUR TRANSACTION HAS BEEN DECLINED")
        print('----------------------------------')
        print('**********************************')


def foodview():
    print("Do yoy want to see menu available : Enter 1 for yes :")
    ch=int(input("enter your choice:"))
    if ch==1:
        cs.execute("select * from food")
        rows=cs.fetchall()
        for x in rows:
            print(x)

def orderitem():
    global s
    print("Do yoy want to see menu available : Enter 1 for yes :")
    ch=int(input("enter your choice:"))
    if ch==1:
        cs.execute("select * from food")
        rows=cs.fetchall()
        for x in rows:
            print(x)
    print("do you want to purchase from above list:enter your choice:")
    d=int(input("enter your choice:"))
    if(d==1):
        print("you are ordering coffee")
        a=int(input("enter quantity"))
        s=20*a
        print("your amount for coffee is :",s,"\n")
    elif (d==2):
        print("you are ordering tea")
        a=int(input("enter quantity"))
        s=15*a
        print("your amount for tea is :",s,"\n")
    elif(d==3):
```

```
        print("you are ordering colddrink")
        a=int(input("enter quantity"))
        s=45*a
        print("your amount for colddrink is :",s,"\n")
    elif(d==4):
        print("you are ordering samosa")
        a=int(input("enter quantity"))
        s=20*a
        print("your amount fopr samosa is :",s,"\n")
    elif(d==5):
        print("you are ordering milk")
        a=int(input("enter quantity"))
        s=35*a
        print("your amount for milk is :",s,"\n")
    elif(d==6):
        print("you are ordering noodles")
        a=int(input("enter quantity"))
        s=60*a
        print("your amount for noodles is :",s,"\n")
        B.append(s)
        print("Are you sure you want to make payment of rs.",s,"press 1 to
continue for payment")
        ch=int(input("enter your choice"))
        if(ch==1):
            print("you can pay us via \n1.Credit/Debit Card \n2.Paytm Wallet
\n3. Net Banking \n4. Cash payment")
            pc=int(input("enter your payment method choice"))
        if(pc==1):
            print("You are paying via Debit/Credit card::")
            crdn=int(input("enter you 16/19 digit credit/debit card no."))
            doex=int(input("enter you card expiry date in format MMYYYY"))
            cvv=int(input("enter your card CVV no. printed at back of your
card"))
            fac=input("enter yours 2 Factor Authentication password to
complete your transaction")
            print("Thankyou for making payment of Rs.",s,"We have recieved
your payment and transaction has been processed")
        elif(pc==2):
            print("You are paying via Paytm Wallet::")
            pn=int(input("enter your paytm registered no."))
            psd=int(input("enter your paytm PIN"))
        elif(pc==3):
            print("You are paying via NET BANKING::")
            bnk=input("enter your bank name")
            usd=input("enter your user id")
            pswdd=input("enter your net banking password")
            fac1=input("enter yours 2 Factor Authentication password to
complete your transaction")
            print("Thankyou for making payment of Rs.",s,"\n We have recieved
your payment and transaction has been processed")
            print('------------------------------')
            print('******************************')
```

```
            print("YOUR TRANSACTION WAS SUCCESSFUL")
            print('------------------------------')
            print('******************************')
        else:
            print('---------------------------------')
            print('*********************************')
            print("YOUR TRANSACTION HAS BEEN DECLINED")
            print('---------------------------------')
            print('*********************************')
            quit()
    else:
        print("please enter your order from the food menu")

def luggagebill():
    global z
    print("Do yoy want to see rate for lugage : Enter 1 for yes :")
    ch=int(input("enter your choice:"))
    if ch==1:
        cs.execute("select * from luggage")
        rows=cs.fetchall()
        for x in rows:
            print(x)
    y=int(input("Enter Your weight of extra lugage(In Kg)->"))
    z=y*50
    print('------------------------------')
    print('******************************')
    print("your luggage bill: Rs.",z,"\n")
    print('------------------------------')
    print('******************************')
    B.append(z)
    print("Are you sure you want to make payment of rs.",z,"press 1 to
continue for payment")
    ch=int(input("enter your choice"))
    if(ch==1):
        print("you can pay us via \n1.Credit/Debit Card \n2.Paytm Wallet \n3.
Net Banking \n4. Cash payment")
        pc=int(input("enter your payment method choice"))
    if(pc==1):
        print("You are paying via Debit/Credit card::")
        crdn=int(input("enter you 16/19 digit credit/debit card no."))
        doex=int(input("enter you card expiry date in format MMYYYY"))
        cvv=int(input("enter your card CVV no. printed at back of your card"))
        fac=input("enter yours 2 Factor Authentication password to complete
your transaction")
        print("Thankyou for making payment of Rs.",z,"We have recieved your
payment and transaction has been processed")
    elif(pc==2):
        print("You are paying via Paytm Wallet::")
        pn=int(input("enter your paytm registered no."))
        psd=int(input("enter your paytm PIN"))
    elif(pc==3):
        print("You are paying via NET BANKING::")
```

```
        bnk=input("enter your bank name")
        usd=input("enter your user id")
        pswdd=input("enter your net banking password")
        fac1=input("enter yours 2 Factor Authentication password to complete
your transaction")
        print("Thankyou for making payment of Rs.",z,"\n We have recieved your
payment and transaction has been processed")
        print('------------------------------')
        print('******************************')
        print("YOUR TRANSACTION WAS SUCCESSFUL")
        print('------------------------------')
        print('******************************')
    else:
        print('----------------------------------')
        print('**********************************')
        print("YOUR TRANSACTION HAS BEEN DECLINED")
        print('----------------------------------')
        print('**********************************')
        quit()

    return z
def lb():
    print(z)
def res():
    print(s)
def cmpbill():
    print("your complete bill is")
    print(B)

def Menuset():
    print("enter 1: To view Available Trains")
    print("enter 2: To enter customer data")
    print("enter 3 : To view class")
    print("enter 4 : for tcketamount")
    print("enter 5 : for viewing food menu")
    print("enter 6 : for food bill")
    print("enter 7 :for luggage bill")
    print("enter 8 : for complete amount")
    print("enter 9 : for exit:")
    '''try:
        #userinput=int(input("pleaseselect an above opton:"))
    except ValueError:
        exit("\n hi thats not a number")'''

    userinput=int(input("enter your choice"))
    if(userinput==1):
        trninfo()
    if(userinput==2):
        registerpass()
    elif(userinput==3):
        classview()
    elif(userinput==4):
```

```
        ticketprice()
    elif(userinput==5):
        foodview()
    elif(userinput==6):
        orderitem()
    elif(userinput==7):
        luggagebill()
    elif(userinput==8):
        cmpbill()
    elif(userinput==9):
        quit()
    else:
        print("enter correct choice")
Menuset()

def runagain():
    runagn=input("\n want to run again y/n:")
    while(runagn.lower()=='y'):
        if(platform.system()=="windows"):
            print(os.system('cls'))
        else:
            print(os.system('clear'))
        Menuset()
        runagn=input("\n want to run again y/n:")
runagain()
```

OUTPUT

```
============= RESTART: C:\Users\Piyush Rai\Desktop\trainbook.py =============
enter 1: To view Available Trains
enter 2: To enter customer data
enter 3 : To view class
enter 4 : for tcketamount
enter 5 : for viewing food menu
enter 6 : for food bill
enter 7 :for luggage bill
enter 8 : for complete amount
enter 9 : for exit:
enter your choice1
YOU CAN CURRENTLY BOOK TRAIN FOR BOARDING STATION DELHI AND MUMBAI ONLY VIA OUR SYSTEM
do you want to see TRAINS available: press 1 to yes
enter your choice1
(12312, 'NEW DELHI- MUMBAI SF EXPRESS')
(12314, 'NEW DELHI- CHENNAI SF EXPRESS')
(12352, 'NEW DELHI- KOLKATA SF EXPRESS')
(12382, 'NEW DELHI- JAMMU SF EXPRESS')
(18764, 'MUMBAI- VARANASI SF EXPRESS')
(42812, 'NEW DELHI- JAIPUR SF EXPRESS')
enter correct choice

 want to run again y/n:
```

```
enter 1: To view Available Trains
enter 2: To enter customer data
enter 3 : To view class
enter 4 : for tcketamount
enter 5 : for viewing food menu
enter 6 : for food bill
enter 7 :for luggage bill
enter 8 : for complete amount
enter 9 : for exit:
enter your choice6
Do yoy want to see menu available : Enter 1 for yes :
enter your choice:1
(1, 'coffee', 20)
(2, 'tea', 15)
(3, 'colddrink', 45)
(4, 'samosa', 20)
(5, 'milk', 35)
(6, 'noodles', 60)
do you want to purchase from above list:enter your choice:
enter your choice:6
you are ordering noodles
enter quantity8
your amount for noodles is : 480

Are you sure you want to make payment of rs. 480 press 1 to continue for payment
enter your choice1
you can pay us via
1.Credit/Debit Card
2.Paytm Wallet
3. Net Banking
4. Cash payment
enter your payment method choice5
----------------------------------
**********************************
YOUR TRANSACTION HAS BEEN DECLINED
----------------------------------
**********************************
```

```
1
enter 1: To view Available Trains
enter 2: To enter customer data
enter 3 : To view class
enter 4 : for tcketamount
enter 5 : for viewing food menu
enter 6 : for food bill
enter 7 :for luggage bill
enter 8 : for complete amount
enter 9 : for exit:
enter your choice3
do you want to see class types available: press 1 to yes
enter your choice1
(1, 'First class AC', 6000)
(2, 'Second class AC', 4000)
(3, 'Third class AC', 2000)

 want to run again y/n:Y
1
enter 1: To view Available Trains
enter 2: To enter customer data
enter 3 : To view class
enter 4 : for tcketamount
enter 5 : for viewing food menu
enter 6 : for food bill
enter 7 :for luggage bill
enter 8 : for complete amount
enter 9 : for exit:
enter your choice4
We provides following CLASS TYPES to our passengers: Select yours
1. First Class AC ------> @Rs. 6000
2. First Class AC ------> @Rs. 4000
3. First Class AC ------> @Rs. 2000
enter your choice2
enter no. of passenger5
you have opted Second Class AC
----------------------
**********************
```

BIBLIOGRAPHY

OUR PROJECT WAS COMPLETED WITH THE HELP OF FOLLOWING SOURCE :-

1) *COMPUTER SCIENCE WITH PYTHON (SUMITA ARORA)*
2) *OUR COMPUTER TEACHER – MRS. NEELIMA SINGH*
3) *INTERNET*