COMPUTER SCIENCE

Connectivity Based Project

NAME - NIKITA KANODIA

CLASS - XII A

TOPIC NAME- PAWS : PET SALON

INDEX

Remarks -

Signature -

Date –

MAHARAJA AGARSAIN PUBLIC SCHOOL

ASHOK VIHAR,DELHI

CERTIFICATE

This is to certify that PET SALON

computer science project is developed by

Nikita Kanodia of XII-A

under my supervision and guidance.

The work done by her is original.

NITIN GUPTA

PGT, COMPUTER SCIENCE

DATE-

ACKNOWLEDGEMENT

Apart from the efforts of me, the success of any project depends largely on the encouragement and guidelines of many others. I take this opportunity to express my gratitude to the people who have been instrumental in the successful completion of this project.

I express deep sense of gratitude to almighty God for giving me strength for the successful completion of the project.

I express my heartfelt gratitude to my parents for constant encouragement while carrying out this project.

I gratefully acknowledge the contribution of the individuals who contributed in bringing this project up to this level, who continues to look after me despite my flaws,

I express my deep sense of gratitude to The Principal**Mrs. Punam Gupta**, who has been continuously motivating and extending their helping hand to us.

My sincere thanks to **Mr. Nitin Gupta** , Master In-charge, A guide, Mentor all the above a friend, who critically reviewed my project and helped in solving each and every problem, occurred during implementation of the project

The guidance and support received from all the members who contributed and who are contributing to this project, was vital for the success of the project. I am grateful for their constant support and help.

INTRODUCTION

This project is all about a software for Pet Salons. It helps the Pet Salon Owner to have a full-fledged control over his/her salon. It adds a new record, updates an existing record and of course prints a receipt to the customer.

INTRODUCTION TO PYTHON

Python is one of the high-level programming which works in the interpreted mode. It is a high level language with very programmer friendly interface.
Python works in two different modes: interactive mode and script mode.

Interactive Mode: In interactive mode, the command will be executed on python prompt (>>>) and result will be displayed then and there only. The command will not be saved for future reference.
Script Mode: In script mode, the python code is written in the editor and it is saved with .py extension and this code can be executed using the shortcut F5 and used for future reference.

DATATYPES IN PYTHON

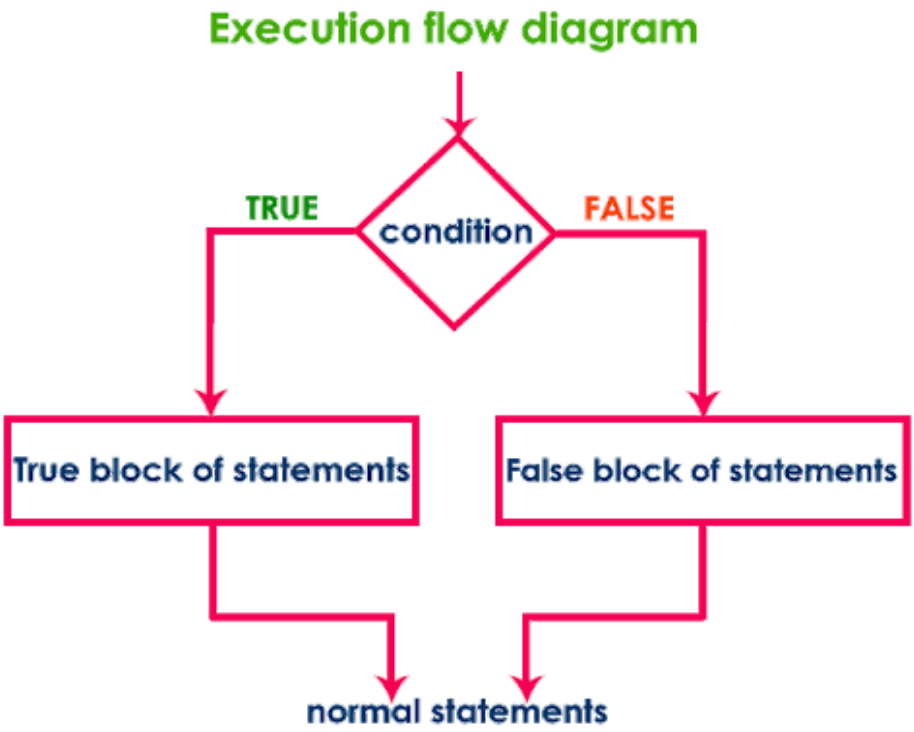
Datatypes define the types of values stored by the variable. The

type of values can be with or without decimal, alphabets or special characters. Python support variety of datatypes. They are:

- Numbers: Integers, Float, Complex
- Sequence: Strings, List, Tuple, Dictionary

SELECTION STATEMENT

The program is executed depending upon the particular condition and only one part of the expression will be executed on the basis of a particular condition. We can say that, “if” with “else” provides an alternative execution, as there are two possibilities and the condition determines which one gets executed.



ITERATION

We know that computers are often used to automate the repetitive tasks. One of the advantages of using computer to repeatedly perform an identical task is that it is done without making any mistake. Loops are used to repeatedly execute the same code in a program. Python provides two types of looping constructs:

- While statement
- For statement

INTRODUCTION TO MYSQL

- **MySQL** is a Database Management System (DBMS) that uses Structured Query Language (SQL).
- SQL is the most popular language for adding, accessing and managing content in a database.
- It is used to collect or manipulate the data in the form of tables which is collection of rows and columns.

ADVANTAGES OF USING DATABASE MANAGEMENT SOFTWARES:

1. It removes data redundancy to a large extent.
2. Database enforces standardization.
3. Database provides security of the data.
4. Database provides validation or constraints on the data.

KEYS USED WITH DATABASE:

1)PRIMARY KEY :Key which uniquely identifiy a tuple in a relation and is used to remove duplication of the data.

2)CANDIDATE KEY: When two or more attributes serve the purpose of primary key.

3)ALTERNATE KEY: An attribute of a relation that can act as a primary key.

4)FOREIGN KEY: Primary key of one table when referred in another table.

MYSQL- A Command Based Software

DDL	DML
Data Definition Language	Data Manipulation Language
These commands work on the structure of the table.	These commands work on the data present in the table.

HARDWARE AND SOFTWARESPECIFICATIONS

HARDWARE SPECIFICATIONS:

- CPU: Intel Core or Xeon 3GHz (or Dual Core 2GHz) or equal AMD CPU. Cores: Single (Dual/Quad Core is recommended)
- RAM: 4 GB (6 GB recommended)
- Graphic Accelerators: nVidia or ATI with support of OpenGL 1.5 or higher.
- Display Resolution: 1280×1024 is recommended, 1024×768 is minimum.
- Pendrive: if backup required.

SOFTWARE REQUIREMENTS:

- Windows OS
- Python 3
- MySQL connector module

DATABASE AND TABLESTRUCTURE

DATABASE: pet

TABLE STRUCTURE:

```
mysql> desc pet_salon;
+--------------------+-------------+------+-----+---------+-------+
| Field              | Type        | Null | Key | Default | Extra |
+--------------------+-------------+------+-----+---------+-------+
| owner_name         | char(40)    | YES  |     | NULL    |       |
| owner_ph           | varchar(10) | YES  |     | NULL    |       |
| pet_no             | int         | NO   | PRI | NULL    |       |
| pet_type           | char(30)    | YES  |     | NULL    |       |
| full_makeover      | char(5)     | YES  |     | NULL    |       |
| selective_makeover | char(30)    | YES  |     | NULL    |       |
| no_of_hours        | int         | YES  |     | NULL    |       |
+--------------------+-------------+------+-----+---------+-------+
7 rows in set (0.34 sec)
```

PYTHON CODING

```
print("                    CONNECTIVITY PROJECT OF PYTHON WITH MYSQL")
print("                          Made by- ")
print("                             1. Nikita Kanodia ")
print("                             2. Isha Bansal")
print("                             3. Tanishka Aggarwal")
print("                          **********THE PETCARE SALON**********")
print("                          *******INTRODUCTION OF PROJECT*******")
string1="This project is very useful for the pet salons to keep a check on the pets coming into their petcare."
string2="It helps in bill generation ,updation, searching and deletion of the details of the pets and hence making the work easy for them."

print(" "*25,string1)
print(" "*12,string2)
print()

from tabulate import tabulate
import mysql.connector as mys
mycon=mys.connect(host='localhost',user='root',passwd='root',database='pet')
if mycon.is_connected():
```

```
print("                                    Mysql is Successfully connected")
mycursor=mycon.cursor()
mycursor.execute("select * from pet_salon")
mydata=mycursor.fetchall()

ch="y"
while ch=="y" or ch=="Y":
   print("MENU :")
   print("1. SHOW DETAILS ")
   print("2. INSERT NEW RECORD")
   print("3. UPDATE THE RECORD")
   print("4. SEARCH THE RECORD")
   print("5. DELETE A RECORD ")
   print("6. BILL GENERATION")
   print("7. EXIT")
   print()

   n=int(input("Enter your choice: "))
   if n==1:
      #SHOW DETAILS
print("              ****SHOW DETAILS****")
print()
mycursor.execute("select * from pet_salon")
      mydata=mycursor.fetchall()
```

```
print(tabulate(mydata,headers=["Owner Name","Owner Phone Number","PetNumber","PetType","FullMakeover","SelectiveMakeover","Number of Hours"],tablefmt="fancy_grid"))
```

```
   elif n==2:
    #INSERT NEW DETAILS
print("                ****INSERT DETAIL****")
    inp="y"
    while inp=="y":
print("WELCOME TO THE PETCARE SALON")
      name=input("Enter the owner name :  ")
      phno=int(input("Enter owner's phone number : "))
      pno=int(input("Enter pet number : "))
      ptype=input("Enter the pet type :  ")
      make=input("Enter 1 for full makeover and 2 for special part treatment:")
      dur=int(input("Enter duration of service (in hours): "))
      if make=="1":
            q="yes"
            query="insert into pet_salon values('{owner_name}',{owner_ph},{pet_no},'{pet_type}','{full_makeover}','{selective_makeover}',{no_of_hours})".format(owner_name=name,owner_ph=phno,pet_no=pno,pet_type=ptype,full_makeover=q,selective_makeover="None",no_of_hours=dur)
      elif make=="2":
print(" SERVICES PROVIDED HERE ARE : ")
print(" 1. BATH ")
```

```
print(" 2. NAIL CUTTING AND FILING")
print(" 3. EAR CLEANING ")
print(" 4. MEDICATED SOAKS")
print(" 5- FLEA TREATMENTS")
print(" 6- SPA PACKAGE")
        choice=input("Enter the service to avail 1/2/3/4/5/6 : ")
        if choice=="1":
            q="BATH"
        elif choice=="2":
            q="NAIL CUTTING AND FILING"
        elif choice=="3":
            q="EAR CLEANING"
        elif choice=="4":
            q="MEDICATED SOCKS"
        elif choice=="5":
            q="FLEA TREATMENTS"
        elif choice=="6":
            q="SPA PACKAGE"
        else:
print(" INVALID INPUT ")
        query="insert into pet_salon
values('{owner_name}',{owner_ph},{pet_no},'{pet_type}','{full_makeover}','{selective_makeove
r}',{no_of_hours})".format(owner_name=name,owner_ph=phno,pet_no=pno,pet_type=ptype,f
ull_makeover="None",selective_makeover=q,no_of_hours=dur)
mycursor.execute(query)
mycon.commit()
print("!!!Record Saved!!!")
```

```
        inp=input("Do you want to add more? If yes press y: ")
print()
    elif n==3:
        #UPDATE DETAILS
print("                ****UPDATE DETAILS****")
        pno=int(input("Enter the Pet Number to Update: "))
mycursor.execute("select * from pet_salon where pet_no={}".format(pno))
        data=mycursor.fetchone()
        if data!= None:
print("!!!Record Found!!!")
print("Details Are:")
            print(data)
        if data==None:
print("No record exist")
        if data[4]==None or data[5]==None:
print("1.Update full makeover")
print("2.Update selective makeover")
print("3.Update duration of makeover(in hours) ")
print("4.Update ownner's phone number")
            u=int(input("Enter Your Choice to Update 1/2/3: "))
        else:
print(" YOU HAVE TWO CHOICES ")
print("3. Update duration of makeover(in hours)")
print("4. Update ownner's phone number")
            u=int(input("Enter Your Choice to Update 3/4: "))
        con="Y"
```

```
        while con=='Y':
            if u==1:
                s="yes"
mycursor.execute("update pet_salon set full_makeover='{}' where pet_no={}".format(s,pno))
mycon.commit()
            if u==2:
                s=input("Enter the selective makeover for change: ")
mycursor.execute("update pet_salon set selective_makeover='{}' where
pet_no={}".format(s,pno))
mycon.commit()
            elif u==3:
                s=int(input("Enter Duration of makeover (in hours): "))
mycursor.execute("update pet_salon set no_of_hours={} where pet_no={}".format(s,pno))
mycon.commit()
            elif u==4:
                s=int(input(" Enter owner's new phone number: "))
mycursor.execute("update pet_salon set owner_ph={} where pet_no={}".format(s,pno))
mycon.commit()
            else:
print("INVALID INPUT")
                cont="N"
print("!!!RECORD UPDATED!!!")
            con=input("Do you Want to Update More?Y/N: ")
print()
    elif n==4:
        #SEARCH DATA
```

```
print("            ****SEARCH DATA****")
      pno=int(input("Enter Pet Number to Search: "))
mycursor.execute("select * from pet_salon where pet_no={}".format(pno))
      data=mycursor.fetchone()
      if data!=None:
          print(data)
      else:
print("!!!No such record Exist!!!")
print()
   elif n==5:
       #DELETE DETAIL
print("            ****DELETE DETAIL****")
       c=int(input("Enter pet number whose record is to be deleted : "))
       for i in mydata :
          if i[2]==c:
print("!!!RECORD FOUND!!!")
             query="delete from pet_salon where pet_no={}".format(c)
mycursor.execute(query)
mycon.commit()
print("!!!RECORD DELETED!!!")
print()
   elif n==6:
      #BILL GENERATION
print("            ****BILL GENERATION****")
print()
      data=0
```

```
    pno = int(input("Enter Pet Number to generate bill: "))
mycursor.execute("select * from pet_salon where pet_no={}".format(pno))
    data = mycursor.fetchone()
    print(data)
print()
    a=data[5]
    if data[4]=="yes":
        table=[["1",data[3],"Full Makeover","10000"],[" "," "," ","Total Bill = Rs.10000/-"]]
print("                    BILL IS : ")
print(tabulate(table,headers=["S.No.","Pet Type","Selective/Full Makeover","Cost(in
Rs.)"],tablefmt="fancy_grid"))


    else:
        s=data[5].split(",")
        for i in range (len(s)):
          if s[i]=="BATH":
            c=s[i]
            b="Total Bill = Rs.1000/-"
            table=[["1",data[3],c,"1000"],[" "," "," ",b]]

          elif s[i]=="NAIL CUTTING AND FILING" :
            c=s[i]
            b="Total Bill = Rs.2500/-"
            table=[["1",data[3],c,"2500"],[" "," "," ",b]]

          elif s[i]=="EAR CLEANING" :
```

```
            c=s[i]
            b="Total Bill = Rs.1200/-"
            table=[["1",data[3],c,"1200"],[" "," "," ",b]]
        elif s[i]=="MEDICATED SOAKS" :
            c=s[i]
            b="Total Bill = Rs.1000/-"
            table=[["1",data[3],c,"1000"],[" "," "," ",b]]
        elif s[i]=="FLEA TREATMENTS":
            c=s[i]
            b="Total Bill = Rs.800/-"
            table=[["1",data[3],c,"800"],[" "," "," ",b]]
        elif s[i]=="SPA PACKAGE" :
            c=s[i]
            b="Total Bill = Rs.3000/-"
            table=[["1",data[3],c,"3000"],[" "," "," ",b]]
print("                    BILL IS : ")
print(tabulate(table,headers=["S.No.","Pet Type","Selective/Full Makeover","Cost(in
Rs.)"],tablefmt="fancy_grid"))
print()
  if n==7:
      #EXIT
      import sys
sys.exit()
  ch=input("DO YOU WANT TO CONTINUE? Y/N  :  ")
```

INSERTING DATA

BEFORE PROGRAM EXECUTION:

```
mysql> select * from pet_salon;
+------------+------------+--------+----------+---------------+--------------------+-------------+
| owner_name | owner_ph   | pet_no | pet_type | full_makeover | selective_makeover | no_of_hours |
+------------+------------+--------+----------+---------------+--------------------+-------------+
| amir       | 8860287305 |   1459 | rabbit   | None          | EAR CLEANING       |           2 |
| maria      | 9319026768 |   1460 | dog      | None          | SPA PACKAGE        |           4 |
| tanvi      | 8860297345 |   1461 | hamster  | yes           | None               |           5 |
| kapil      | 8668464849 |   1462 | cat      | None          | BATH               |           1 |
| ajey       | 9496887947 |   1463 | dog      | yes           | None               |           6 |
| Niyati     | 8678999569 |   1464 | rabbit   | yes           | None               |           7 |
| deepak     | 9499568966 |   1466 | hamster  | None          | FLEA TREATMENTS    |           3 |
| aananya    | 8789334509 |   1467 | cat      | None          | MEDICATED SOCKS    |           3 |
| prachi     | 7764523488 |   1468 | dog      | yes           | None               |           5 |
+------------+------------+--------+----------+---------------+--------------------+-------------+
9 rows in set (0.06 sec)
```

```
WELCOME TO THE PETCARE SALON
Enter the owner name :  jasmine
Enter owner's phone number : 8888769324
Enter pet number : 1465
Enter the pet type :  cat
Enter 1 for full makeover and 2 for special part treatment:1
Enter duration of service (in hours): 6
!!!Record Saved!!!
Do you want to add more? If yes press y: y

WELCOME TO THE PETCARE SALON
Enter the owner name :  sachin
Enter owner's phone number : 7744996688
Enter pet number : 1469
Enter the pet type :  rabbit
Enter 1 for full makeover and 2 for special part treatment:2
Enter duration of service (in hours): 4
 SERVICES PROVIDED HERE ARE :
 1. BATH
 2. NAIL CUTTING AND FILING
 3. EAR CLEANING
 4. MEDICATED SOAKS
 5- FLEA TREATMENTS
 6- SPA PACKAGE
Enter the service to avail 1/2/3/4/5/6 : 2
!!!Record Saved!!!
Do you want to add more? If yes press y: n
```

AFTER PROGRAM EXECUTION:

```
mysql> select * from pet_salon;
+------------+------------+--------+----------+--------------+-----------------------+-------------+
| owner_name | owner_ph   | pet_no | pet_type | full_makeover | selective_makeover    | no_of_hours |
+------------+------------+--------+----------+--------------+-----------------------+-------------+
| amir       | 8860287305 |   1459 | rabbit   | None         | EAR CLEANING          |           2 |
| maria      | 9319026768 |   1460 | dog      | None         | SPA PACKAGE           |           4 |
| tanvi      | 8860297345 |   1461 | hamster  | yes          | None                  |           5 |
| kapil      | 8668464849 |   1462 | cat      | None         | BATH                  |           1 |
| ajey       | 9496887947 |   1463 | dog      | yes          | None                  |           6 |
| Niyati     | 8678999569 |   1464 | rabbit   | yes          | None                  |           7 |
| jasmine    | 8888769324 |   1465 | cat      | yes          | None                  |           6 |
| deepak     | 9499568966 |   1466 | hamster  | None         | FLEA TREATMENTS       |           3 |
| aananya    | 8789334509 |   1467 | cat      | None         | MEDICATED SOCKS       |           3 |
| prachi     | 7764523488 |   1468 | dog      | yes          | None                  |           5 |
| sachin     | 7744996688 |   1469 | rabbit   | None         | NAIL CUTTING AND FILING |           4 |
+------------+------------+--------+----------+--------------+-----------------------+-------------+
11 rows in set (0.00 sec)
```

UPDATING RECORD

BEFORE PROGRAM EXECUTION:

```
mysql> select * from pet_salon;
+------------+------------+--------+----------+--------------+------------------------+------------+
| owner_name | owner_ph   | pet_no | pet_type | full_makeover | selective_makeover     | no_of_hours |
+------------+------------+--------+----------+--------------+------------------------+------------+
| amir       | 8860287305 |   1459 | rabbit   | None          | EAR CLEANING           |           2 |
| maria      | 9319026768 |   1460 | dog      | None          | SPA PACKAGE            |           4 |
| tanvi      | 8860297345 |   1461 | hamster  | yes           | None                   |           5 |
| kapil      | 8668464849 |   1462 | cat      | None          | BATH                   |           1 |
| ajey       | 9496887947 |   1463 | dog      | yes           | None                   |           6 |
| Niyati     | 8678999569 |   1464 | rabbit   | yes           | None                   |           7 |
| jasmine    | 8888769324 |   1465 | cat      | yes           | None                   |           6 |
| deepak     | 9499568966 |   1466 | hamster  | None          | FLEA TREATMENTS        |           3 |
| aananya    | 8789334509 |   1467 | cat      | None          | MEDICATED SOCKS        |           3 |
| prachi     | 7764523488 |   1468 | dog      | yes           | None                   |           5 |
| sachin     | 7744996688 |   1469 | rabbit   | None          | NAIL CUTTING AND FILING |           4 |
+------------+------------+--------+----------+--------------+------------------------+------------+
11 rows in set (0.00 sec)
```

```
Enter the Pet Number to Update: 1464
!!!Record Found!!!
Details Are:
('Niyati', '8678999569', 1464, 'rabbit', 'yes', 'None', 6)
 YOU HAVE TWO CHOICES
3. Update duration of makeover(in hours)
4. Update ownner's phone number
Enter Your Choice to Update 3/4: 3
Enter Duration of makeover (in hours): 8
!!!RECORD UPDATED!!!
Do you Want to Update More?Y/N: N
```

AFTER PROGRAM EXECUTION:

```
mysql> select * from pet_salon;
+------------+------------+--------+----------+--------------+-------------------------+-------------+
| owner_name | owner_ph   | pet_no | pet_type | full_makeover | selective_makeover      | no_of_hours |
+------------+------------+--------+----------+--------------+-------------------------+-------------+
| amir       | 8860287305 |   1459 | rabbit   | None          | EAR CLEANING            |           2 |
| maria      | 9319026768 |   1460 | dog      | None          | SPA PACKAGE             |           4 |
| tanvi      | 8860297345 |   1461 | hamster  | yes           | None                    |           5 |
| kapil      | 8668464849 |   1462 | cat      | None          | BATH                    |           1 |
| ajey       | 9496887947 |   1463 | dog      | yes           | None                    |           6 |
| Niyati     | 8678999569 |   1464 | rabbit   | yes           | None                    |           8 |
| jasmine    | 8888769324 |   1465 | cat      | yes           | None                    |           6 |
| deepak     | 9499568966 |   1466 | hamster  | None          | FLEA TREATMENTS         |           3 |
| aananya    | 8789334509 |   1467 | cat      | None          | MEDICATED SOCKS         |           3 |
| prachi     | 7764523488 |   1468 | dog      | yes           | None                    |           5 |
| sachin     | 7744996688 |   1469 | rabbit   | None          | NAIL CUTTING AND FILING |           4 |
+------------+------------+--------+----------+--------------+-------------------------+-------------+
11 rows in set (0.00 sec)
```

DELETING RECORD

BEFORE PROGRAM EXECUTION:

```
mysql> select * from pet_salon;
+------------+------------+--------+----------+---------------+-------------------------+-------------+
| owner_name | owner_ph   | pet_no | pet_type | full_makeover | selective_makeover      | no_of_hours |
+------------+------------+--------+----------+---------------+-------------------------+-------------+
| amir       | 8860287305 |   1459 | rabbit   | None          | EAR CLEANING            |           2 |
| maria      | 9319026768 |   1460 | dog      | None          | SPA PACKAGE             |           4 |
| tanvi      | 8860297345 |   1461 | hamster  | yes           | None                    |           5 |
| kapil      | 8668464849 |   1462 | cat      | None          | BATH                    |           1 |
| ajey       | 9496887947 |   1463 | dog      | yes           | None                    |           6 |
| Niyati     | 8678999569 |   1464 | rabbit   | yes           | None                    |           8 |
| jasmine    | 8888769324 |   1465 | cat      | yes           | None                    |           6 |
| deepak     | 9499568966 |   1466 | hamster  | None          | FLEA TREATMENTS         |           3 |
| aananya    | 8789334509 |   1467 | cat      | None          | MEDICATED SOCKS         |           3 |
| prachi     | 7764523488 |   1468 | dog      | yes           | None                    |           5 |
| sachin     | 7744996688 |   1469 | rabbit   | None          | NAIL CUTTING AND FILING |           4 |
+------------+------------+--------+----------+---------------+-------------------------+-------------+
11 rows in set (0.00 sec)
```

```
Enter pet number whose record is to be deleted : 1463
!!!RECORD FOUND!!!
!!!RECORD DELETED!!!
```

AFTER PROGRAM EXECUTION:

```
mysql> select * from pet_salon;
+------------+------------+--------+----------+--------------+-----------------------+-------------+
| owner_name | owner_ph   | pet_no | pet_type | full_makeover | selective_makeover    | no_of_hours |
+------------+------------+--------+----------+--------------+-----------------------+-------------+
| amir       | 8860287305 |   1459 | rabbit   | None          | EAR CLEANING          |           2 |
| maria      | 9319026768 |   1460 | dog      | None          | SPA PACKAGE           |           4 |
| tanvi      | 8860297345 |   1461 | hamster  | yes           | None                  |           5 |
| kapil      | 8668464849 |   1462 | cat      | None          | BATH                  |           1 |
| Niyati     | 8678999569 |   1464 | rabbit   | yes           | None                  |           8 |
| jasmine    | 8888769324 |   1465 | cat      | yes           | None                  |           6 |
| deepak     | 9499568966 |   1466 | hamster  | None          | FLEA TREATMENTS       |           3 |
| aananya    | 8789334509 |   1467 | cat      | None          | MEDICATED SOCKS       |           3 |
| prachi     | 7764523488 |   1468 | dog      | yes           | None                  |           5 |
| sachin     | 7744996688 |   1469 | rabbit   | None          | NAIL CUTTING AND FILING |           4 |
+------------+------------+--------+----------+--------------+-----------------------+-------------+
10 rows in set (0.07 sec)
```

SEARCHING RECORD

```
Enter Pet Number to Search: 1466
('deepak', '9499568966', 1466, 'hamster', 'None', 'FLEA TREATMENTS', 3)
```

BILL GENERATION

```
Enter Pet Number to generate bill: 1462
('kapil', '8668464849', 1462, 'cat', 'None', 'BATH', 1)
```

BILL IS :

S.No.	Pet Type	Selective/Full Makeover	Cost(in Rs.)
1	cat	BATH	1000
			Total Bill = Rs.1000/-

SHOW DETAILS

Owner Name	Owner Phone Number	Pet Number	Pet Type	Full Makeover	Selective Makeover	Number of Hours
amir	8860287305	1459	rabbit	None	EAR CLEANING	2
maria	9319026768	1460	dog	None	SPA PACKAGE	4
tanvi	8860297345	1461	hamster	yes	None	5
kapil	8668464849	1462	cat	None	BATH	1
Niyati	8678999569	1464	rabbit	yes	None	8
jasmine	8888769324	1465	cat	yes	None	6
deepak	9499568966	1466	hamster	None	FLEA TREATMENTS	3
aananya	8789334509	1467	cat	None	MEDICATED SOCKS	3
prachi	7764523488	1468	dog	yes	None	5
sachin	7744996688	1469	rabbit	None	NAIL CUTTING AND FILING	4

BIBLIOGRAPHY

1. Computer science with Python - class 12 by Sumita Arora..

2. Computer science with Python - class 11 by Sumita Arora.