

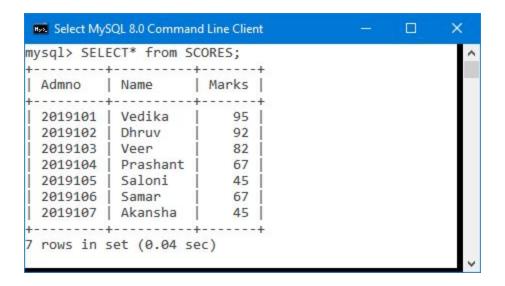
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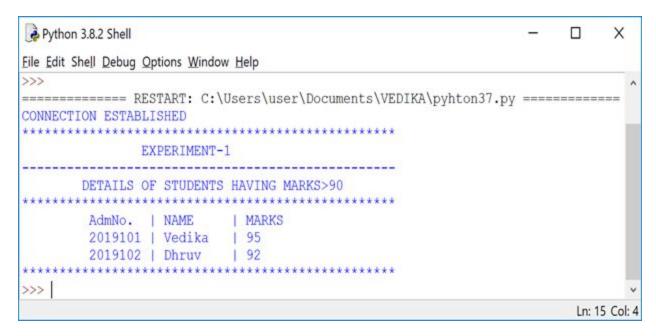
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AIM: Understanding connectivity and fetchall.

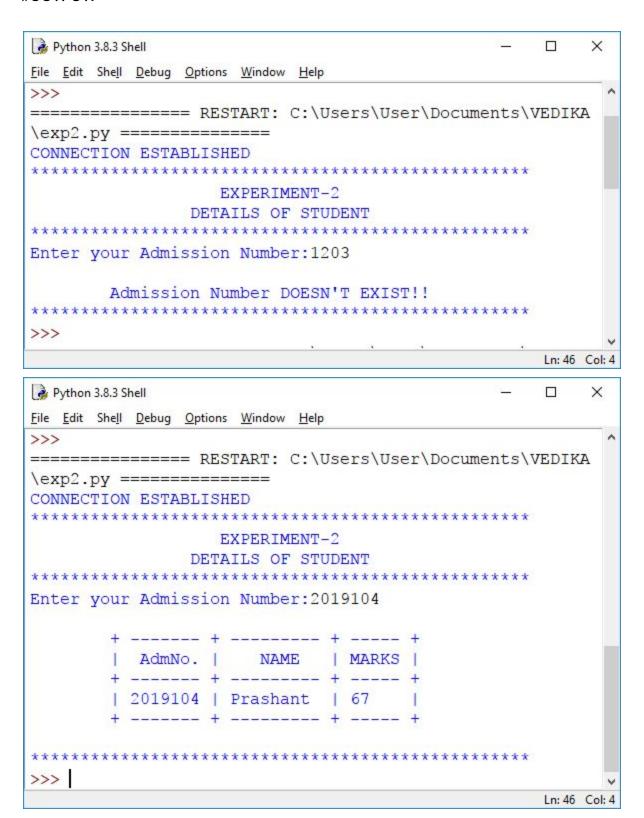
TASK: Display records (above 90 scores).

```
#SOURCE CODE:
import mysql.connector
conn=mysql.connector.connect(
   host="localhost",
   user="root",
   password="tiger",
   database="system1"
  )
if conn.is_connected()==False:
  print("Sorry connection is failed..")
else:
  print("CONNECTION ESTABLISHED")
  cur= conn.cursor()
  q1="SELECT * from SCORES where marks>90"
  cur.execute(q1)
  rs=cur.fetchall()
  print("*"*50)
  print("\t\tEXPERIMENT-1")
  print("-"*50)
  print("\tDETAILS OF STUDENTS HAVING MARKS>90")
  print("*"*50)
  print("\t AdmNo."," |","NAME".ljust(8),"|","MARKS")
  for i in rs:
     print("\t",i[0],"|",i[1].ljust(8),"|",i[2])
  print("*"*50)
```

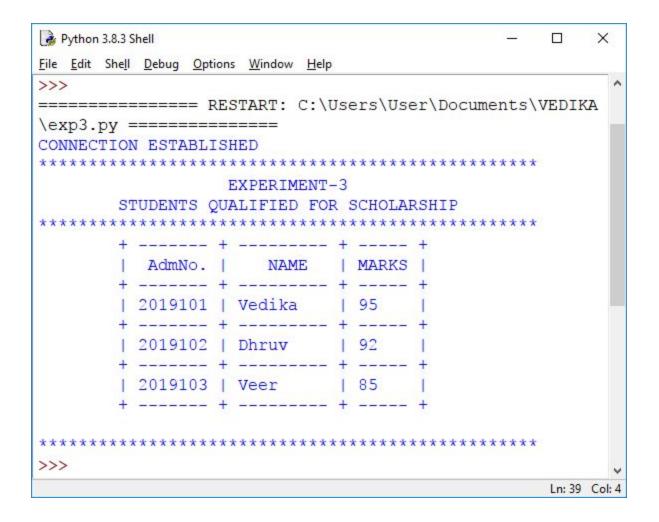




AIM: Understanding fetchone(). TASK: Search records. **#SOURCE CODE:** import mysql.connector conn=mysql.connector.connect(host="localhost", user="root", password="tiger", database="system1") if conn.is connected()==False: print("Sorry connection is failed..") else: print("CONNECTION ESTABLISHED") cur=conn.cursor() print("*"*50) print("\t\t EXPERIMENT-2") print("\t\tDETAILS OF STUDENT ") print("*"*50) ad=input("Enter your Admission Number:") print() q="SELECT * from SCORES where admno="+ad cur.execute(q) rs=cur.fetchone() if rs==None: print("\tAdmission Number DOESN'T EXIST!!") print("\t+","-"*7,"+","-"*9,"+","-"*5,"+") print("\t| AdmNo. | NAME | MARKS |") print("\t+","-"*7,"+","-"*9,"+","-"*5,"+") print("\t|",str(rs[0]).ljust(7),"|",rs[1].ljust(9),"|",str(rs[2]).ljust(5),"|") print("\t+","-"*7,"+","-"*9,"+","-"*5,"+") print() print("*"*50)



AIM: Understanding fetchone(). **TASK:** Display Top 3 scores. **#SOURCE CODE:** import mysql.connector conn=mysql.connector.connect(host="localhost", user="root", password="tiger", database="system1") if conn.is_connected()==False: print("Sorry connection is failed..") else: print("CONNECTION ESTABLISHED") cur=conn.cursor() print("*"*50) print("\t\t EXPERIMENT-3") print("\tSTUDENTS QUALIFIED FOR SCHOLARSHIP") print("*"*50) q="SELECT * from SCORES ORDER BY marks DESC" cur.execute(q) rs=cur.fetchmany(3) print("\t+","-"*7,"+","-"*9,"+","-"*5,"+") print("\t| AdmNo. | NAME | MARKS |") print("\t+","-"*7,"+","-"*9,"+","-"*5,"+") for i in rs: print("\t|",str(i[0]).ljust(7),"|",i[1].ljust(9),"|",str(i[2]).ljust(5),"|") print("\t+","-"*7,"+","-"*9,"+","-"*5,"+") print() print("*"*50)

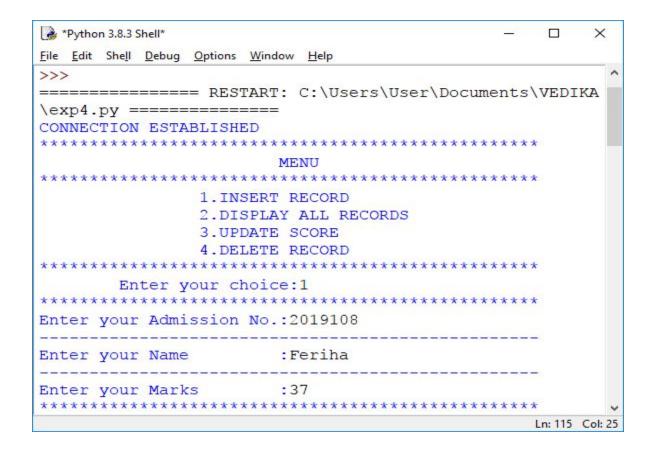


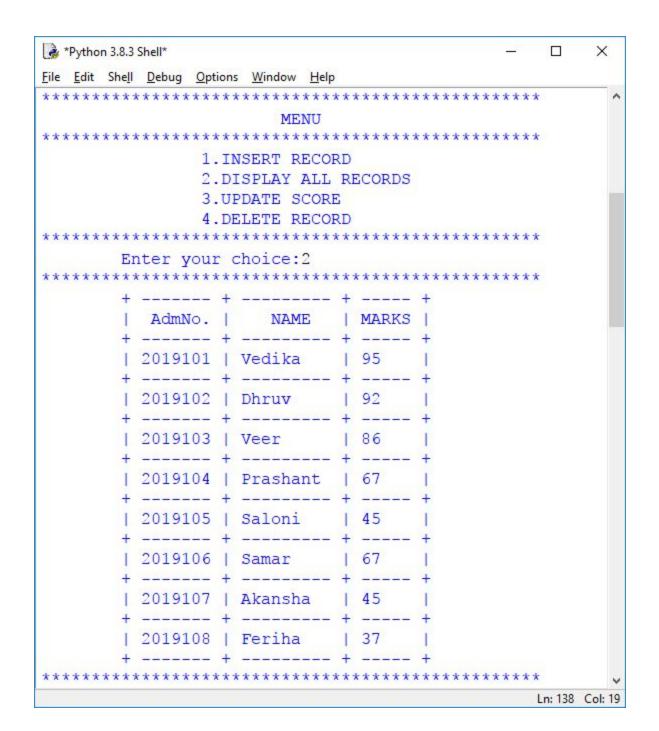
AIM: Performing insert, update and delete.

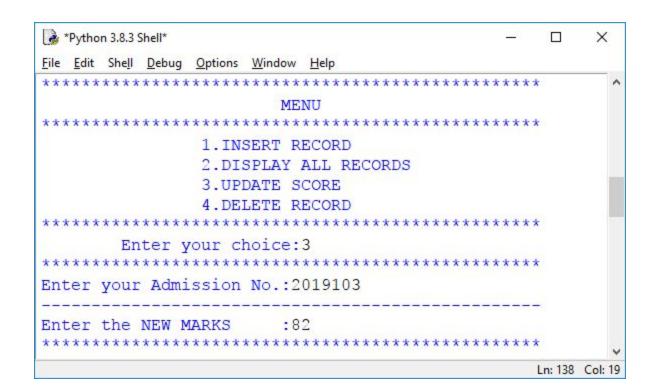
TASK: Create a menu driven program to insert, update and delete from a SQL table.

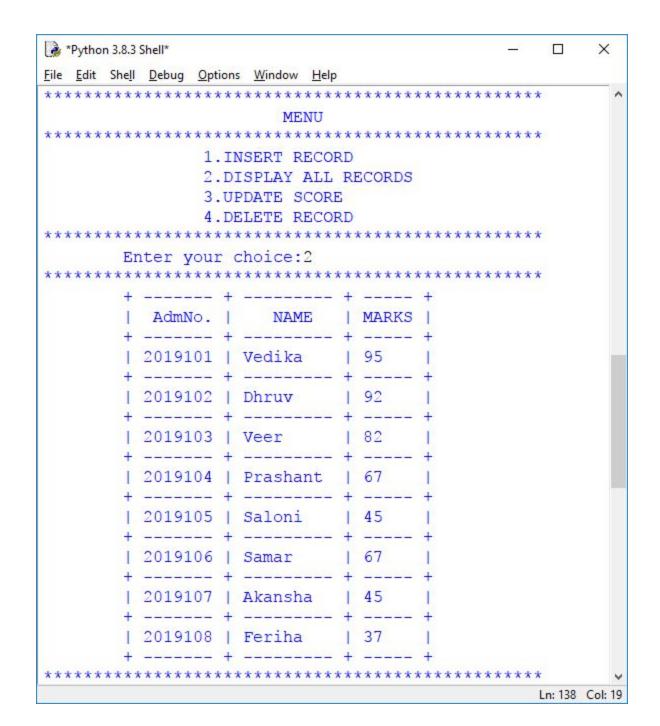
```
import mysql.connector
conn=mysql.connector.connect(
   host="localhost",
   user="root",
   password="tiger",
   database="system1"
  )
if conn.is_connected()==False:
  print("Sorry connection is failed..")
else:
  print("CONNECTION ESTABLISHED")
  cur=conn.cursor()
  def insert():
      ad=int(input("Enter your Admission No.:"))
      print("-"*50)
      n=input("Enter your Name\t\t:")
      print("-"*50)
      mr=int(input("Enter your Marks\t:"))
      insert="INSERT into SCORES values({},'{}',{})". format(ad,n,mr)
      cur.execute(insert)
      cur.execute("COMMIT")
  def update():
      an=input("Enter your Admission No.:")
      q="SELECT * from SCORES where Admno ="+ an
      cur.execute(q)
      rs=cur.fetchone()
      print("-"*50)
      if rs==None:
          print("INVALID Admission Number!!")
      else:
          ns=int(input("Enter the NEW MARKS\t:"))
          update="UPDATE SCORES SET Marks= {} where Admno= {}". format(ns,an)
```

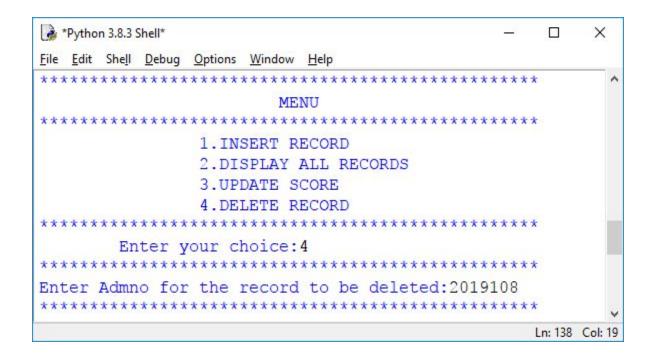
```
cur.execute(update)
          cur.execute("COMMIT")
  def display():
      display="SELECT * from SCORES"
      cur.execute(display)
      rs=cur.fetchall()
      print("\t+","-"*7,"+","-"*9,"+","-"*5,"+")
      print("\t| AdmNo. | NAME | MARKS |")
      for i in rs:
          print("\t+","-"*7,"+","-"*9,"+","-"*5,"+")
          print("\t|",str(i[0]).ljust(7),"|",i[1].ljust(9),"|",str(i[2]).ljust(5),"|")
      print("\t+","-"*7,"+","-"*9,"+","-"*5,"+")
      cur.execute("COMMIT")
  def delete():
      ad=input("Enter Admno for the record to be deleted:")
      delete="DELETE from SCORES where Admno=" +ad
      cur.execute(delete)
      cur.execute("COMMIT")
choice=1
while choice <= 4:
    print("*"*50)
    print("\t\t\tMENU")
    print("*"*50)
    print("\t\t1.INSERT RECORD")
    print("\t\t2.DISPLAY ALL RECORDS")
    print("\t\t3.UPDATE SCORE")
    print("\t\t4.DELETE RECORD")
    print("*"*50)
    choice=int(input("\tEnter your choice:"))
    print("*"*50)
   if choice==1:
        insert()
   if choice==2:
        display()
   if choice==3:
        update()
    if choice==4:
        delete()
```

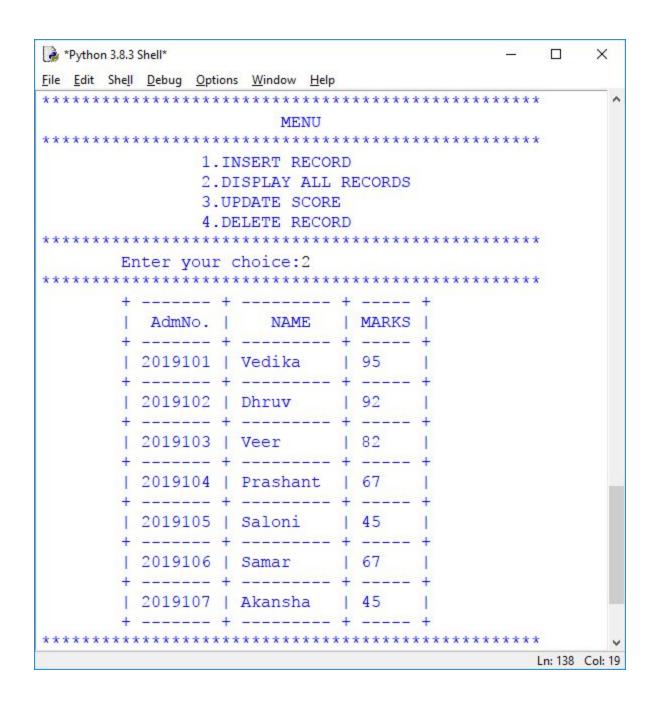










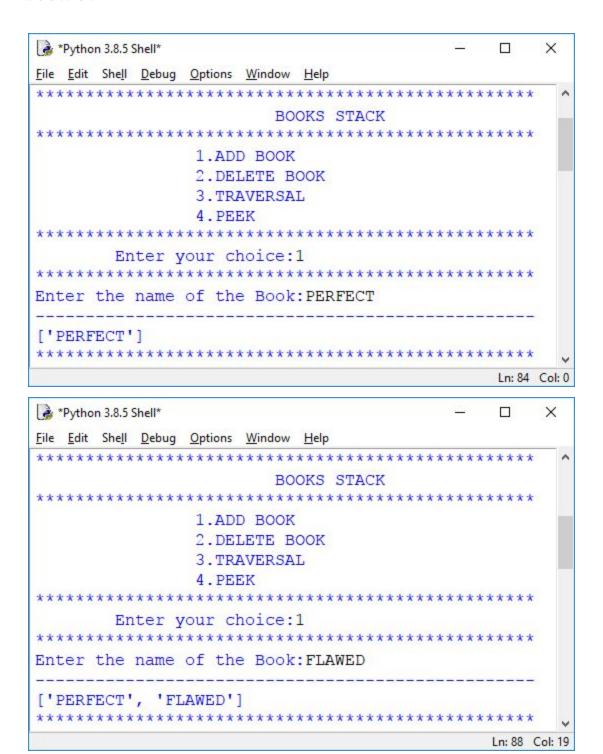


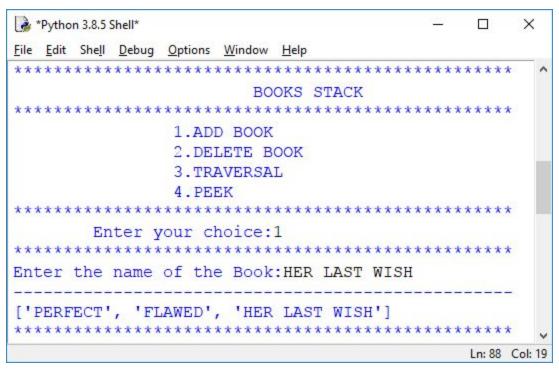
AIM: Stacks- pushing, popping, peeking and traversal.

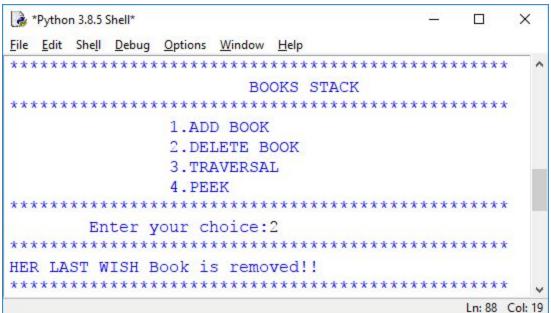
TASK: Create a menu driven program to perform push, pop, peek and traversal in a stack of books.

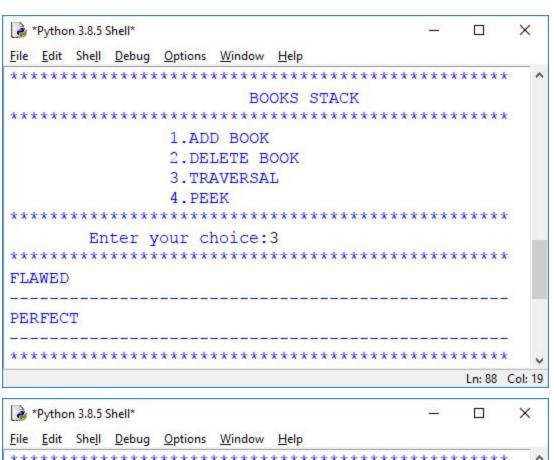
```
books=[]
def push(books):
    bk=input("Enter the name of the Book:")
    books.append(bk)
    print("-"*50)
    print(books)
def pop(books):
   if books==[]:
        print("Stack UNDERFLOW")
   else:
        rm=books.pop()
        print(rm,"Book is removed!!")
def traversal(books):
    n=len(books)
   for i in range(n-1,-1,-1):
        print(books[i])
        print("-"*50)
def peek(books):
    if books==[]:
        print("Stack UNDERFLOW")
   else:
        top=books[-1]
        print("Top most book:",top)
choice=1
while choice <= 4:
    print("*"*50)
    print("\t\t\BOOKS STACK")
    print("*"*50)
    print("\t\t1.ADD BOOK")
    print("\t\t2.DELETE BOOK")
```

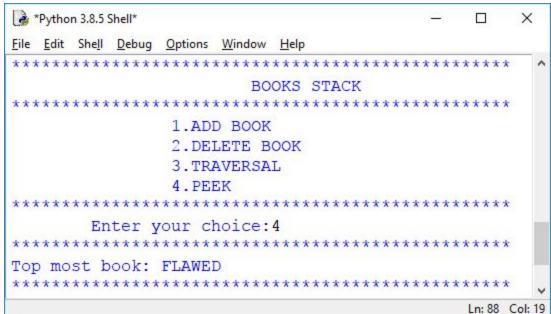
```
print("\t\t3.TRAVERSAL")
print("\t\t4.PEEK")
print("*"*50)
choice=int(input("\tEnter your choice:"))
print("*"*50)
if choice==1:
    push(books)
if choice==2:
    pop(books)
if choice==3:
    traversal(books)
if choice==4:
    peek(books)
```











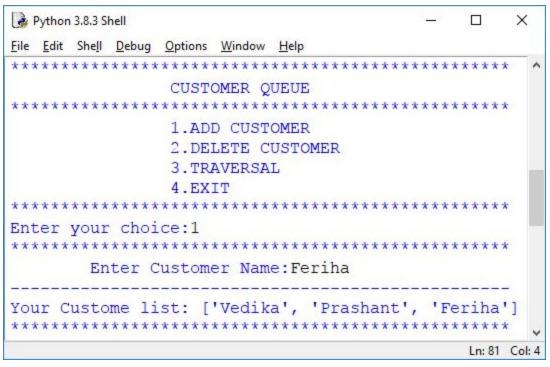
AIM: Queues- enqueue, dequeue.

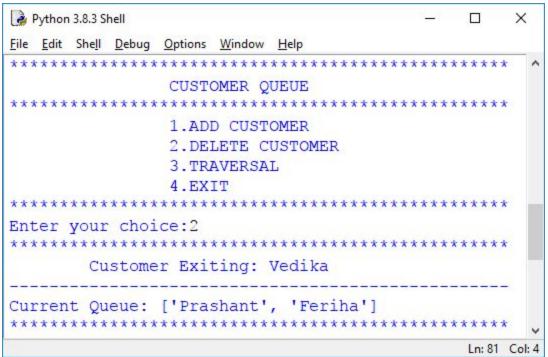
TASK: Create a menu driven program to perform enqueue and dequeue in a list of customers.

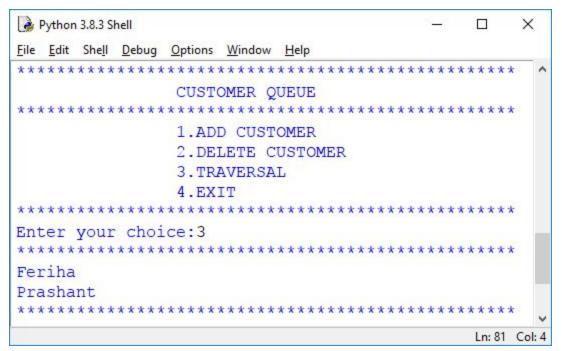
```
cust=[]
def add(cust):
    name=input("\tEnter Customer Name:")
    cust.append(name)
    print("-"*50)
    print("Your Custome list:",cust)
def delete(cust):
    if cust==[]:
        print("\tSorry!!Queue is EMPTY..")
    else:
        cm=cust.pop(0)
        print("\tCustomer Exiting:",cm)
        print("-"*50)
        print("Current Queue:",cust)
def traversal(cust):
    n=len(cust)
    for i in range(n-1,-1,-1):
        print(cust[i])
print("*"*50)
print("\t\tEXPERIMENT NO.-6")
choice=1
while choice <= 4:
    print("*"*50)
    print("\t\tCUSTOMER QUEUE")
    print("*"*50)
    print("\t\t1.ADD CUSTOMER")
    print("\t\t2.DELETE CUSTOMER")
    print("\t\t3.TRAVERSAL")
    print("\t\t4.EXIT")
    print("*"*50)
    choice=int(input("Enter your choice:"))
```

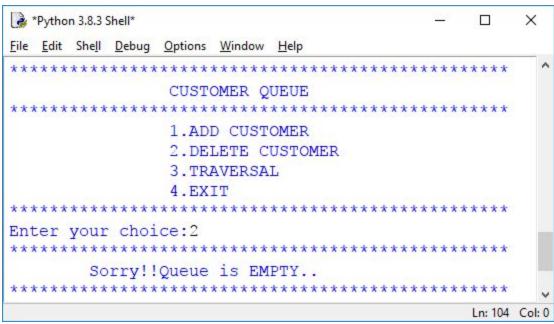
```
print("*"*50)
if choice==1:
    add(cust)
if choice==2:
    delete(cust)
if choice==3:
    traversal(cust)
if choice==4:
    break
```







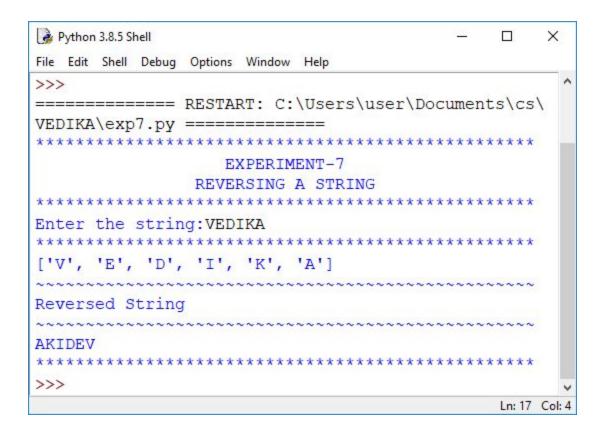




AIM: Application of Stacks.

TASK: Write a program to enter a string and reverse it using stack operations..

```
stack=[]
def push():
  global stack
  string=input("Enter the string:")
  print("*"*50)
  stack=list(string)
  print(stack)
  print("~"*50)
def reversing():
  if stack==[]:
     print("Stack Underflow")
  else:
     print("Reversed String")
     print("~"*50)
     for i in stack[::-1]:
        print(i,end="")
     print()
  print("*"*50)
print("*"*50)
print("\t\t EXPERIMENT-7\n\t\tREVERSING A STRING")
print("*"*50)
push()
reversing()
```

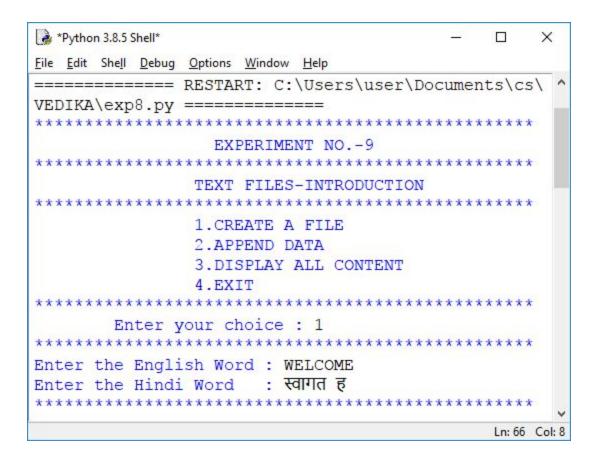


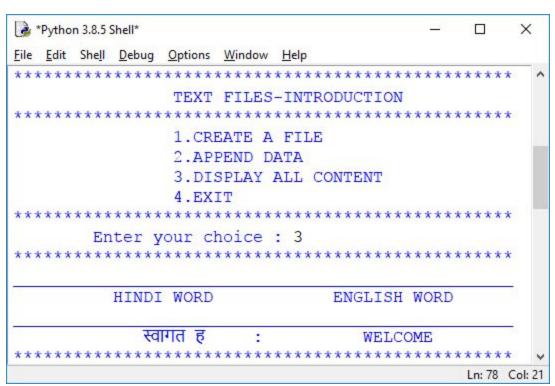
AIM: Performing create, append and display functions.

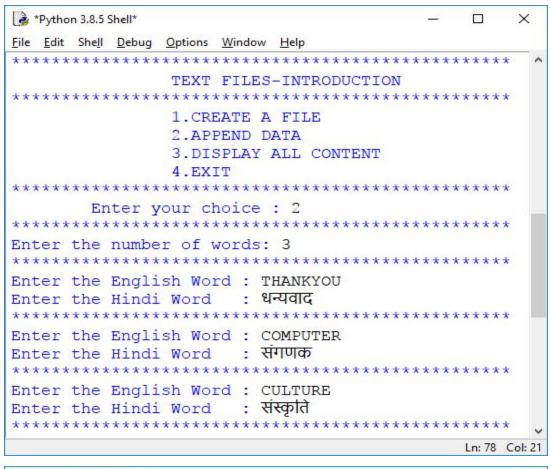
TASK: Write a menu driven program to read a file line by line and display the dictionary using utf-8.

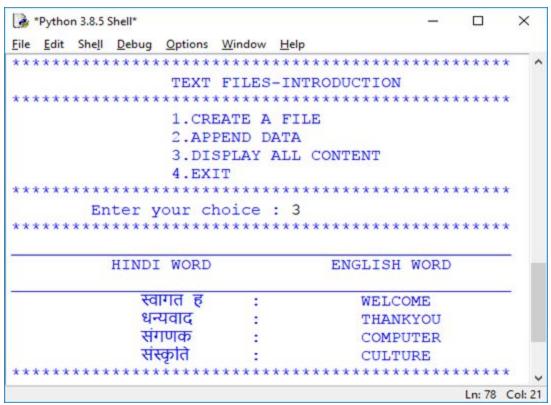
```
def create():
    with open("hinglish.txt","w",encoding="utf-8") as F:
        engword=input("Enter the English Word :")
        hindiword=input("Enter the Hindi Word :")
        data="\t "+hindiword+"\t:\t "+engword
        F.writelines(data)
def display():
    with open("hinglish.txt","r",encoding="utf-8") as F:
        text=F.read()
        print("_"*50)
        print("\t HINDI WORD\t\tENGLISH WORD")
        print("_"*50)
        for i in text:
            print(i,end="")
        print()
def append():
    with open("hinglish.txt","a",encoding="utf-8") as F:
        n=int(input("Enter the number of words:"))
        for i in range(n):
            print("*"*50)
            engword=input("Enter the English Word :")
            hindiword=input("Enter the Hindi Word :")
            data="\n"+"\t "+hindiword+"\t:\t "+engword
            F.write(data)
print("*"*50)
print("\t\t EXPERIMENT NO.-9")
choice=1
while choice <= 4:
    print("*"*50)
    print("\t\tTEXT FILES-INTRODUCTION")
    print("*"*50)
```

```
print("\t\t1.CREATE A FILE")
print("\t\t2.APPEND DATA")
print("\t\t3.DISPLAY ALL CONTENT")
print("\t\t4.EXIT")
print("*"*50)
choice=int(input("\tEnter your choice : "))
print("*"*50)
if choice==1:
    create()
if choice==2:
    append()
if choice==3:
    display()
if choice==4:
    break
```









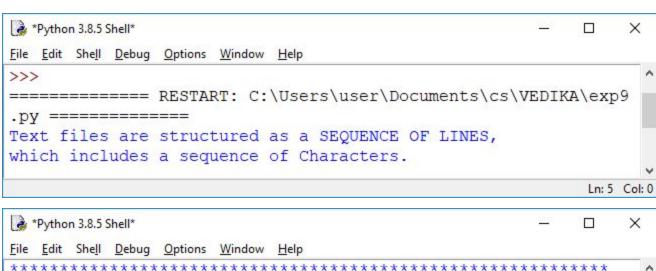
AIM: Understanding read() function.

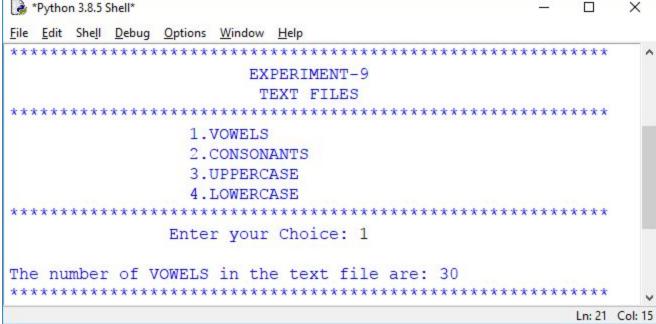
TASK: Write a menu driven program to count the number of vowels/ consonants/ uppercase/ lowercase in the file.

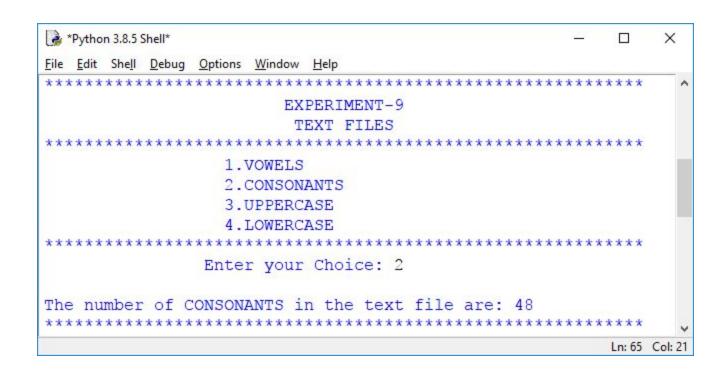
```
def vowels():
  with open("SAMPLE.txt","r") as F:
     a=F.read()
     v=0
     for i in a:
        if i in "aeiouAEIOU":
           v=v+1
     print("The number of VOWELS in the text file are:",v)
def consonants():
  with open("SAMPLE.txt","r") as F:
     a=F.read()
     c=0
     for i in a:
        if i not in "aeiouAEIOU" and i!=" ":
     print("The number of CONSONANTS in the text file are:",c)
def uppercase():
  with open("SAMPLE.txt","r") as F:
     a=F.read()
     u=0
     for i in a:
        if i.isupper():
           u=u+1
     print("The number of UPPERCASE CHARACTERS in the text file are: ",u)
def lowercase():
  with open("SAMPLE.txt","r") as F:
     a=F.read()
     I=0
     for i in a:
        if i.islower():
           |=|+1|
```

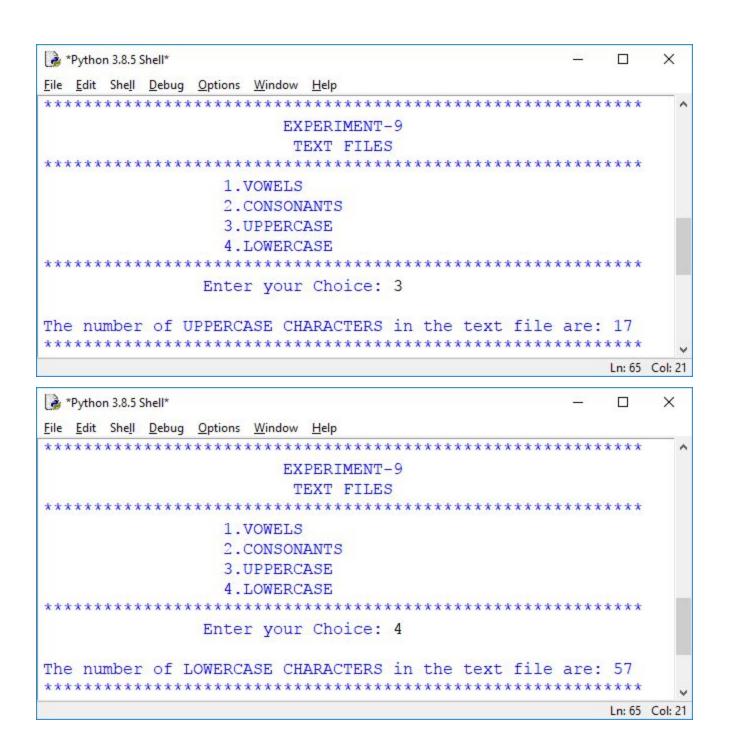
print("The number of LOWERCASE CHARACTERS in the text file are:",I)

```
def display(x):
  F3=open(x,"r")
  string=F3.read()
  print(string)
display("SAMPLE.txt")
choice=1
while choice <= 4:
  print("*"*60)
  print("\t\t\EXPERIMENT-9\n\t\t\t TEXT FILES")
  print("*"*60)
  print("\t\t 1.VOWELS")
  print("\t\t 2.CONSONANTS")
  print("\t\t 3.UPPERCASE")
  print("\t\t 4.LOWERCASE")
  print("*"*60)
  choice=int(input("\t\tEnter your Choice: "))
  print()
  if choice==1:
     vowels()
  elif choice==2:
     consonants()
  elif choice==3:
     uppercase()
  elif choice==4:
     lowercase()
  else:
     print("\t\tSORRY! Invalid choice")
```





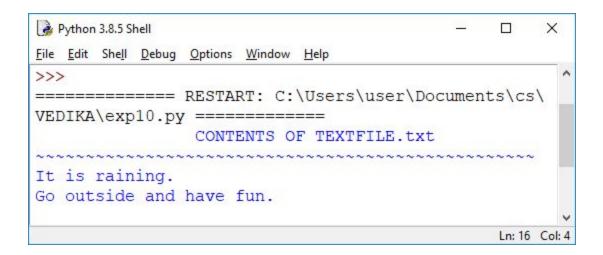


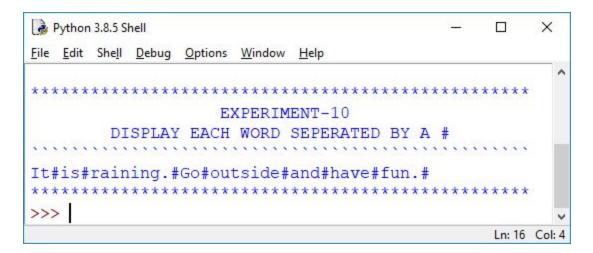


AIM: Understanding readline() and split.

TASK: Create a program to read a text file line by line and display each word separated by a '#',

```
def hashtag():
  F= open("TEXTFILE.txt","r")
  List1 = F.readline()
  List2=[]
  while List1!="":
     List2= List1.split()
     for i in List2:
        print(i,end="#")
     List1= F.readline()
  F.close()
def display(x):
  F3 = open(x,"r")
  string=F3.read()
  print("~"*50)
  print(string)
print("\t\tCONTENTS OF TEXTFILE.txt")
display("TEXTFILE.txt")
print("*"*50)
print("\t\t EXPERIMENT-10\n\tDISPLAY EACH WORD SEPERATED BY A #")
print("`"*50)
hashtag()
print()
print("*"*50)
```

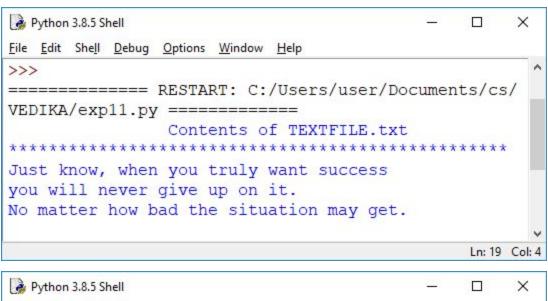


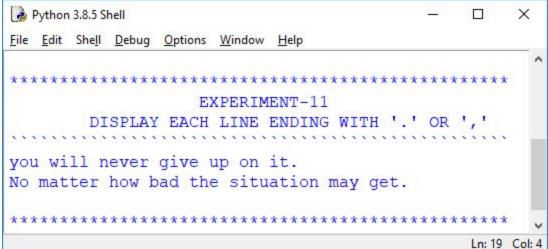


AIM: Understanding readlines() and split.

TASK: Create a program to read a text file and print those lines ending with ',' or '.'

```
def stopcomma():
  F= open("TEXTFILE.txt","r")
  List1= F.readlines()
  for i in List1:
     if i[-2]=="." or i[-2]==",":
        print(i,end="")
  F.close()
def display(x):
  F3=open(x,"r")
  string=F3.read()
  print("*"*50)
  print(string)
print("\t\tContents of TEXTFILE.txt")
display("TEXTFILE.txt")
print("*"*50)
print("\t\t EXPERIMENT-11\n\tDISPLAY EACH LINE ENDING WITH '.' OR ','")
print("`"*50)
stopcomma()
print()
print("*"*50)
```

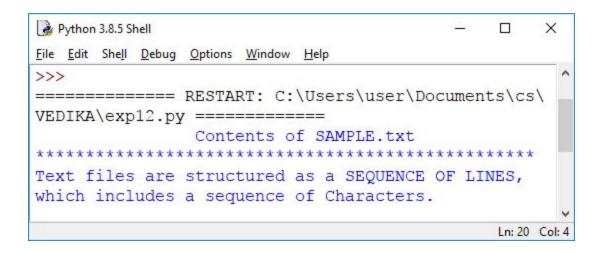


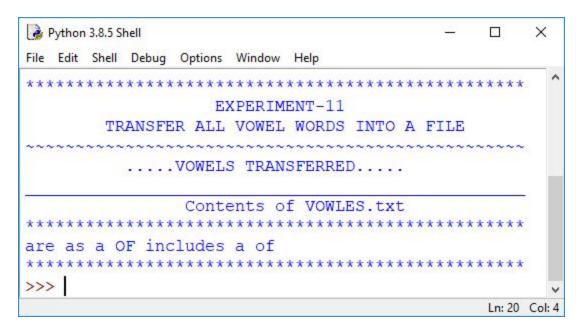


AIM: Understanding read() and write()l.

TASK:Create a program to read a text file and transfer all vowel words into another file.

```
def copyfile():
  F1= open("SAMPLE.txt","r")
  F2= open("VOWELS.txt","w")
  read=F1.read()
  words=read.split()
  for i in words:
     if i[0] in "aeiouAEIOU":
        F2.write(i+" ")
  F1.close()
  F2.close()
def display(x):
  F3=open(x,"r")
  string=F3.read()
  print("*"*50)
  print(string)
print("\t\tContents of SAMPLE.txt")
display("SAMPLE.txt")
print("*"*50)
print("\t\t EXPERIMENT-11\n\tTRANSFER ALL VOWEL WORDS INTO A FILE")
print("~"*50)
copyfile()
print("\t .....VOWELS TRANSFERRED.....")
print("_"*50)
print("\t\tContents of VOWLES.txt")
display("VOWELS.txt")
print("*"*50)
```

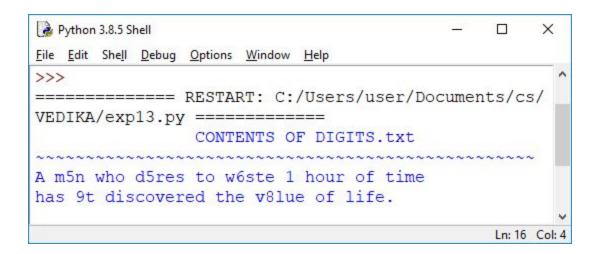


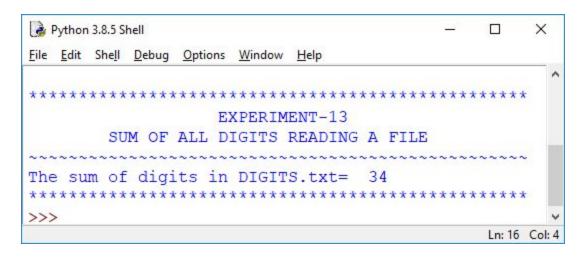


AIM: Understanding read() and write().

TASK: Create a program to read a text file and find the sum of all integers in it.

```
def sumdigits():
  F= open("DIGITS.txt","r")
  read= F.read()
  sum=0
  for i in read:
     if i.isdigit():
        sum+=int(i)
  print("The sum of digits in DIGITS.txt= ",sum)
  F.close()
def display(x):
  F3=open(x,"r")
  string=F3.read()
  print("~"*50)
  print(string)
print("\t\tCONTENTS OF DIGITS.txt")
display("DIGITS.txt")
print("*"*50)
print("\t\t EXPERIMENT-13\n\tSUM OF ALL DIGITS READING A FILE")
print("~"*50)
sumdigits()
print("*"*50)
```

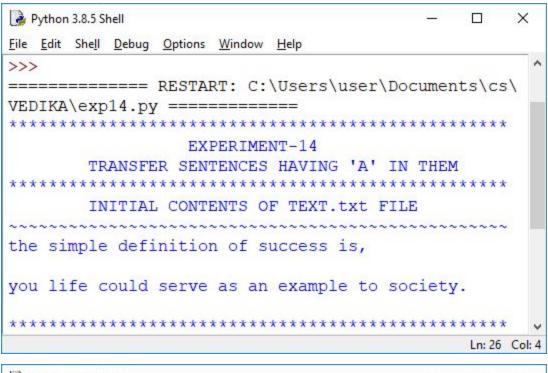


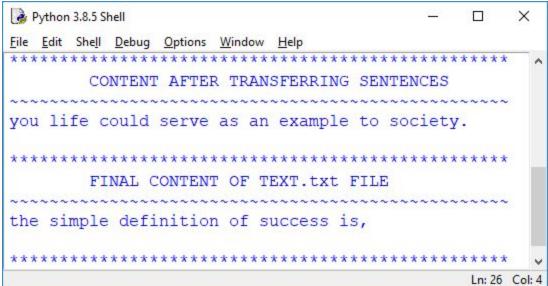


AIM: Understanding readlines() and write()l.

TASK: Create a program to remove all the lines that contain the character 'a' in file And write it to another file.

```
#SOURCE CODE:
print("*"*50)
print("\t\t EXPERIMENT-14\n\tTRANSFER SENTENCES HAVING 'A' IN THEM")
print("*"*50)
F1= open("TEXT.txt","r")
F2= open("ACHAR.txt","w")
List1= F1.readlines()
List2=[]
print("\tINITIAL CONTENTS OF TEXT.txt FILE")
print("~"*50)
for i in List1:
  print(i)
  if "a" in i or "A" in i:
     F2.write(i)
  else:
     List2.append(i)
F1.close()
F2.close()
F1= open("TEXT.txt","w")
F1.writelines(List2)
F1.close()
F2= open("ACHAR.txt","r")
read = F2.read()
print("*"*50)
print("\tCONTENT AFTER TRANSFERRING SENTENCES")
print("~"*50)
print(read)
F2.close()
print("*"*50)
F1= open("TEXT.txt","r")
read= F1.read()
print("\tFINAL CONTENT OF TEXT.txt FILE")
print("~"*50)
print(read)
F1.close()
print("*"*50)
```

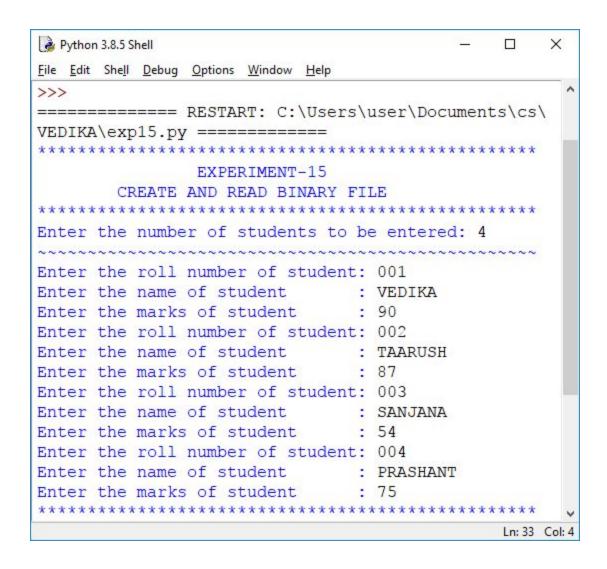


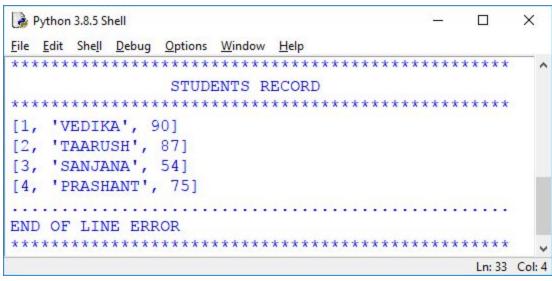


AIM: Understanding try, except and pickle.

TASK: Create a binary file with student details-[roll no., name, marks] and display it.

```
import pickle
def create():
  F= open("STUDENTS.dat","wb")
  n= int(input("Enter the number of students to be entered: "))
  print("~"*50)
  for i in range(n):
     List= []
     roll= int(input("Enter the roll number of student: "))
     name= input("Enter the name of student\t: ")
     marks= int(input("Enter the marks of student\t: "))
     List.append(roll)
     List.append(name)
     List.append(marks)
     pickle.dump(List,F)
   F.close()
def display():
  F= open("STUDENTS.dat","rb")
  while True:
     try:
        obj= pickle.load(F)
        print(obj)
     except EOFError:
        print("."*50)
        print("END OF LINE ERROR")
        break
  F.close()
print("*"*50)
print("\t\tEXPERIMENT-15\n\tCREATE AND READ BINARY FILE")
print("*"*50)
create()
print("*"*50)
print("\t\tSTUDENTS RECORD")
print("*"*50)
display()
print("*"*50)
```

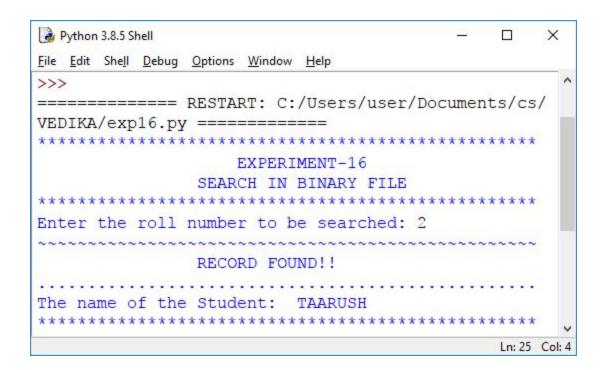


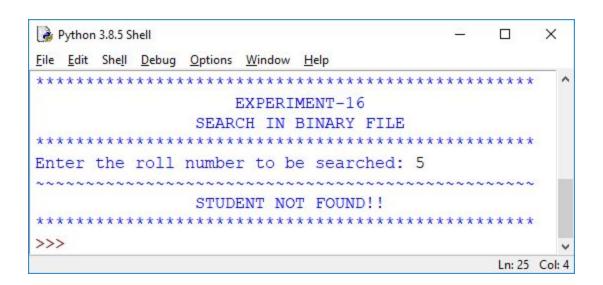


AIM: Understanding try, except and pickle.

TASK: Create a program to search for a given roll number and display the name of the student, if not found then display the appropriate message.

```
import pickle
def searching():
  F= open("STUDENTS.dat","rb")
  search= int(input("Enter the roll number to be searched: "))
  print("~"*50)
  while True:
     try:
        obj= pickle.load(F)
        if search==obj[0]:
          print("\t\tRECORD FOUND!!")
          print("."*50)
          print("The name of the Student: ",obj[1])
          break
     except:
        print("\t\tSTUDENT NOT FOUND!!")
        break
  print("*"*50)
  F.close()
print("*"*50)
print("\t\t EXPERIMENT-16\n\t\tSEARCH IN BINARY FILE")
print("*"*50)
searching()
```



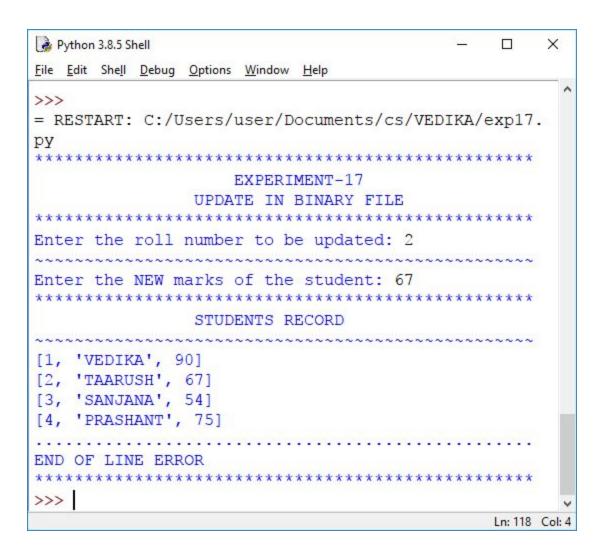


AIM: Understanding Data File Handling.

TASK: To input a roll number and update the marks.

```
import os
import pickle
def updating():
  F1= open("STUDENTS.dat","rb")
  F2= open("RECORD.dat","wb")
  roll= int(input("Enter the roll number to be updated: "))
  print("~"*50)
  while True:
     try:
        obj= pickle.load(F1)
        if roll==obj[0]:
          obj[2]= int(input("Enter the NEW marks of the student: "))
        pickle.dump(obj,F2)
     except EOFError:
        break
  F1.close()
  F2.close()
  os.remove("STUDENTS.dat")
  os.rename("RECORD.dat","STUDENTS.dat")
def display():
  F= open("STUDENTS.dat","rb")
  while True:
     try:
        obj= pickle.load(F)
        print(obj)
     except EOFError:
        print("."*50)
        print("END OF LINE ERROR")
        break
  F.close()
print("*"*50)
```

```
print("\t\t EXPERIMENT-17\n\t\tUPDATE IN BINARY FILE")
print("*"*50)
updating()
print("*"*50)
print("\t\tSTUDENTS RECORD")
print("~"*50)
display()
print("*"*50)
```

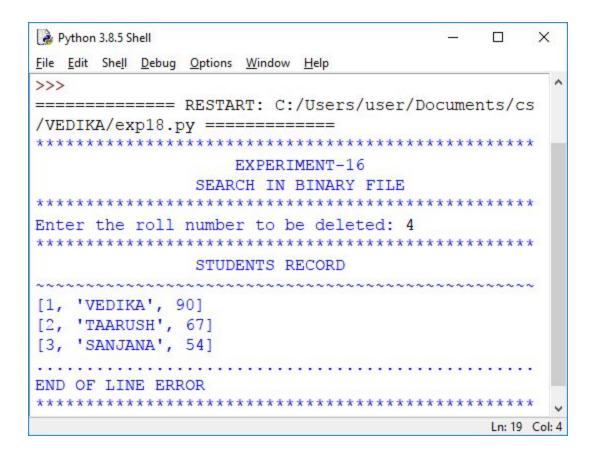


AIM: Understanding Data File Handling.

TASK: To input a roll number and delete the record.

```
import os
import pickle
def deleting():
  F1= open("STUDENTS.dat", "rb")
  F2= open("RECORD.dat","wb")
  roll= int(input("Enter the roll number to be deleted: "))
  while True:
     try:
        obj= pickle.load(F1)
        if roll!=obj[0]:
          pickle.dump(obj,F2)
     except EOFError:
        break
  F1.close()
  F2.close()
  os.remove("STUDENTS.dat")
  os.rename("RECORD.dat", "STUDENTS.dat")
def display():
  F= open("STUDENTS.dat", "rb")
  while True:
     try:
        obj= pickle.load(F)
        print(obj)
     except EOFError:
        print("."*50)
        print("END OF LINE ERROR")
        break
  F.close()
print("*"*50)
print("\t\t EXPERIMENT-16\n\t\tSEARCH IN BINARY FILE")
print("*"*50)
deleting()
```

```
print("*"*50)
print("\t\tSTUDENTS RECORD")
print("~"*50)
display()
print("*"*50)
```

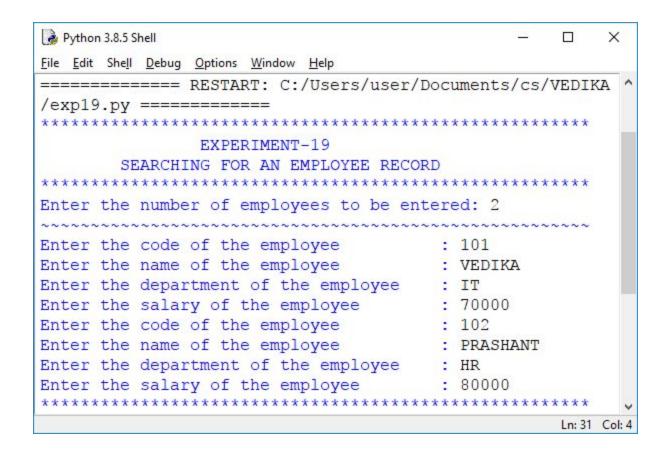


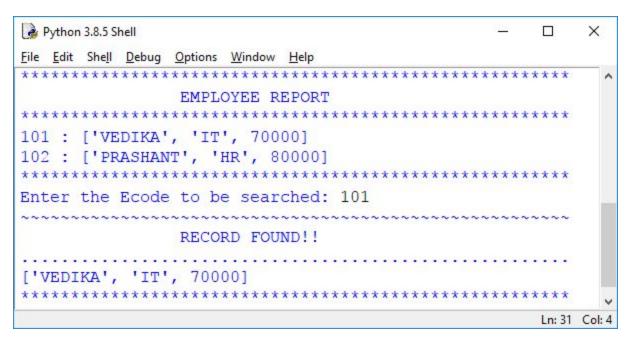
AIM: Understanding Data File Handling.

TASK: Create a program to search for an employee record in a binary file.

```
import pickle
def create():
  F= open("EMPLOYEE.dat","wb")
  n= int(input("Enter the number of employees to be entered: "))
  print("~"*55)
  EmpDic= {}
  for i in range(n):
     Ecode= int(input("Enter the code of the employee\t\t: "))
     ENAME = input("Enter the name of the employee\t\t: ")
     DEPT = input("Enter the department of the employee : ")
     SALARY = int(input("Enter the salary of the employee\t: "))
     EmpDic[Ecode] = [ENAME, DEPT, SALARY]
  pickle.dump(EmpDic,F)
  F.close()
def display():
  F= open("EMPLOYEE.dat","rb")
  while True:
     try:
        obj= pickle.load(F)
        for key in obj:
          print(key,":",obj[key])
     except EOFError:
        break
  F.close()
def CodeSearch():
  F= open("EMPLOYEE.dat","rb")
  search= int(input("Enter the Ecode to be searched: "))
  print("~"*55)
  while True:
     try:
        obj= pickle.load(F)
```

```
if search in obj.keys():
          print("\t\tRECORD FOUND!!")
          print("."*55)
          print(obj[search])
          break
     except:
       print("\t\tSTUDENT NOT FOUND!!")
       break
     F.close()
print("*"*55)
print("\t\tEXPERIMENT-19\n\tSEARCHING FOR AN EMPLOYEE RECORD")
print("*"*55)
create()
print("*"*55)
print("\t\tEMPLOYEE REPORT")
print("*"*55)
display()
print("*"*55)
CodeSearch()
print("*"*55)
```



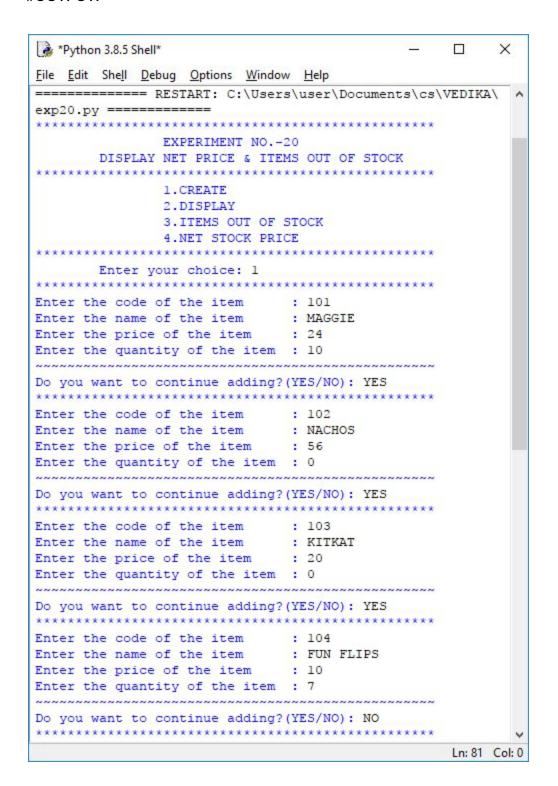


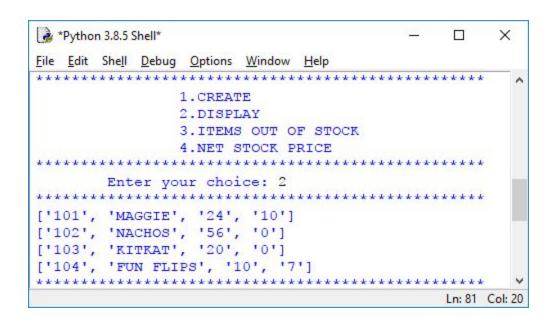
AIM: Understanding Data File Handling.

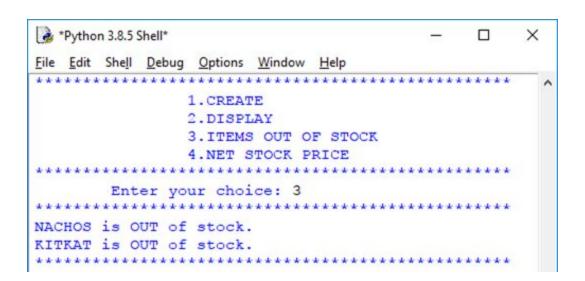
TASK: Create a menu-driven programme to store, display the items, show items that are Out of stock, and net stock price from a CSV file.

```
import csv
def create():
  ans="YES"
  F= open("DETAILS.csv","a",newline=")
  csvwrite= csv.writer(F)
  while ans=="YES":
     icode= int(input("Enter the code of the item\t: "))
     iname= input("Enter the name of the item\t: ")
     unitprice= int(input("Enter the price of the item\t: "))
     quantity= int(input("Enter the quantity of the item : "))
     csvwrite.writerow([icode,iname,unitprice,quantity])
     print("~"*50)
     ans= input("Do you want to continue adding?(YES/NO): ")
     print("*"*50)
  F.close()
def display():
  F= open("DETAILS.csv","r",newline=")
  csvread= csv.reader(F)
  for i in csvread:
     print(i)
  F.close()
def STOCKOVER():
  F= open("DETAILS.csv","r",newline=")
  csvread= csv.reader(F)
  for i in csvread:
     if int(i[3]) = = 0:
        print(i[1],"is OUT of stock.")
  F.close()
```

```
print("*"*50)
print("\t\tEXPERIMENT NO.-20\n\tDISPLAY NET PRICE & ITEMS OUT OF STOCK")
choice=1
while choice <= 4:
   print("*"*50)
    print("\t\t1.CREATE")
    print("\t\t2.DISPLAY")
    print("\t\t3.ITEMS OUT OF STOCK")
    print("\t\t4.EXIT")
    print("*"*50)
   choice=int(input("\tEnter your choice: "))
    print("*"*50)
   if choice==1:
       create()
    if choice==2:
       display()
   if choice==3:
        STOCKOVER()
    if choice==4:
        break
```







AIM: Understanding Data File Handling.

TASK: Write a python program to display the art form, dance form and festival as the user enters the state.

.

```
#SOURCE CODE:
```

```
import csv
def searchart():
  F= open("ART.csv","r",newline=")
  print("\t\tART FORM")
  search= input("Enter the state to be searched for art form: ")
  csvread= csv.reader(F)
  print("~"*60)
  print("Art form(s) for the searched state")
  print("."*60)
  for i in csvread:
     if search.upper()==i[3].upper():
        print(i[4])
  F.close()
def searchdance():
  F= open("ART.csv","r",newline=")
  print("\t\tDANCE FORM")
  search= input("Enter the state to be searched for dance form: ")
  csvread= csv.reader(F)
  print("~"*60)
  print("Dance form(s) for the searched state")
  print("."*60)
  for i in csvread:
     if search.upper()==i[3].upper():
        print(i[5])
  F.close()
def searchfest():
  F= open("ART.csv","r",newline=")
  print("\t\tFESTIVAL")
```

```
search= input("Enter the state to be searched for festival: ")
  csvread= csv.reader(F)
  print("~"*60)
  print("Festival(s) for the searched state")
  print("."*60)
  for i in csvread:
     if search.upper()==i[3].upper():
        print(i[6])
  F.close()
print("*"*60)
print("\t\t EXPERIMENT NO.-21\n\t\tART INTEGRATED LEARNING")
choice=1
while choice <= 4:
    print("*"*60)
    print("\t\t\1.ART FORM")
    print("\t\t2.DANCE FORM")
    print("\t\t3.FESTIVAL")
    print("\t\t4.EXIT")
    print("*"*60)
   choice=int(input("\t\tEnter your choice: "))
    print("*"*60)
    if choice==1:
        searchart()
    if choice==2:
        searchdance()
    if choice==3:
        searchfest()
    if choice==4:
        break
```

Python 3.8.5 Shell	W		×
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ART INTEGRATED LEARNING			
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1.ART FORM			
2.DANCE FORM			
3.FESTIVAL			
4.EXIT			
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Enter your choice: 1			
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ART FORM			
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Art form(s) for the searched state			
Chanderi			•
stone carving			
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