

1. Write a program to create a phone contact book and also to do search, update and delete contact.

```
AIM: To write a program to create a phone contact book and also to do
search, update and delete contact
pb={}
def addcontact():
     ans='y'
     while ans=='y':
     na=input("Enter name:")
     no=int(input("Enter mobile number:"))
     nc=str(no)
     if len(nc)==10:
         pb[na]=no print("Contact saved successfully")
     else:
     print("Invalid number.Enter correct number")
     continue ans=input("Do you want to add another contact(y/n):")
def searchcontact():
     na=input("Enter the name which you want to search:")
     if na in pb:
        print("Mobile number :",pb[na])
       print("Name not in contact book")
def updatecontact():
      na=input("Enter the name which you want to update:")
      if na in pb:
        no=int(input("Enter the new number"))
        nc=str(no)
             if len(nc)==10:
                pb[na]=no print("Contact number updated")
              else:
                print("Invalid number.Contact not updated.")
     else:
          print("Name not in contact book")
def deletecontact():
     na=input("Enter the name which you want to delete the contact:")
     if na in pb:
           del pb[na]
```

```
print("Contact deleted")
                 else:
                 print("Name not in contact book")
  while True:
print("Phone contact book")
print("1-to add contact\n2-to search contact\n3-to update contact\n4-to delete
contact\n5-to quit")
ch=int(input("Enter your choice:"))
if ch==1:
  addcontact()
elif ch==2:
   searchcontact()
elif ch==3:
     updatecontact()
elif ch==4:
     deletecontact()
elif ch==5:
  break
else:
  print("Invalid choice.Give correct choice")
   continue
  OUTPUT:
   Phone contact book
   1-to add contact
  2-to search contact
  3-to update contact
   4-to delete contact
  5-to quit Enter your choice:
   1 Enter name: anandh
```

```
Enter mobile number:7894561230
Contact saved successfully
Do you want to add another contact(y/n):y
Enter name:joy
Enter mobile number:9876543214
Contact saved successfully
Do you want to add another contact(y/n):n
Phone contact book
```

RESULT: Thus the above program has been executed successfully and the output is verified.

2. Read a text file line by line and display each word separated by a #.

```
a=open('sample.txt','r')
b=a.readline()
while b:
    c=b.split()
    last=c.pop()
    for i in c:
        print(i,'#',end=")
    print(last)
    print()
    b=a.readline()
a.close()
```

FILE CONTENT: I am a computer science student.

I am learning python programming

OUTPUT: I #am #a #computer #science #student.

I #am #learning #python #programming.

RESULT: Thus the above program has been executed successfully and the output is verified.

3. Read a text file and display the number of vowels/consonants/uppercase/lowercase characters in the file.

AIM: To read a text file and display the number of vowels/consonants/uppercase/lowercase characters in the file.

```
PROGRAM:
a=open('sample.txt','r')
b=a.read()
v=c=uc=lc=0
vowels=['a','e','i','o','u']
for i in b:
   if i.lower() in vowels:
       v += 1
   else:
      c+=1
    if i.isupper():
       uc+=1
    elif i.islower():
        1c+=1
print("The number of vowels in the file is :",v)
print("The number of consonants in the file is:",c)
print("The number of upper case letters in the file is:",uc)
print("The number of lower case letters in the file is :",lc)
a.close()
FILE CONTENT: I am a computer science student.
                I am learning python programming.
```

OUTPUT: The number of vowels in the file is: 20
The number of consonants in the file is: 46
The number of upper case letters in the file is: 2
The number of lower case letters in the file is: 52

RESULT: Thus the above program has been executed successfully and the output is verified

