

1) Write a python program to create and read the city.txt file in one go and print the contents on the output screen.

```
# Creating file with open() function
f=open("city.txt","w")
f.write("My city is very clean city.")
f.close()
# Reading contents from city.txt file
f=open("city.txt","r")
dt = f.read()
print(dt)
f.close()
```

2) Write a function count_line() to count and display the total number of lines from the file. Consider above file – friend.txt.

```
f=open("friend.txt","r")
def count_line(filename):
    with open(filename) as f1:
        line=f1.readlines()
        total_lines=len(line)
        return(total_lines)
count =count_line("friend.txt")
print(count)
```

3) Creating a binary file , write on the binary file and read the content of a binary file

```
import pickle
def write():
    f=open("My_file.dat","wb")
    list=["Ram","Shyam","Sita","Gita"]
    pickle.dump(list,f)
    f.close()
write()
def readfile():
    f=open("My_file.dat","rb")
    list1=pickle.load(f)
```

```
print(list1)
readfile()
```

4. Write a program to create a binary file “test.bin” with details of books as:[AccNo , Title , Year , Price].

```
import pickle
def write():
    f=open("My_file.dat","wb")
    while True:
        acc_no=int(input("ACC_NO:"))
        title=input("TITLE:")
        year=int(input("YEAR:"))
        price=int(input("PRICE:"))
        list=[acc_no,title,year,price]
        pickle.dump(list,f)
        ch=input("More? Y/N")
        if ch in 'Nn':
            break
        f.close()
def readfile():
    f=open("My_file.dat","rb")
    list1=pickle.load(f)
    print(list1)
write()
readfile()
```

#Write a program to create a text file and store some text in it , taking input from User and also state the frequency of a particular word in the text file .

```

f=open("myfile.txt","w")
f.write("India is my Country \n All India people are my brother and
sister \n India is one of the biggest country in world ")
f.write("I love India")
f.close()
f=open("myfile.txt","r")
f=f.read()
print(f.split())
count=f.count('India')
count1=f.count('Country')
blank=f.count(' ')
print("India:",count)
print("country:",count1)
print("blank:", blank)

```

Write a program to create a binary file “test.bin” with details of books as:

[AccNo , Title , Year , Price]

For atleast 10 books. Then display all the books purchased in the year 2020. Also, update the price of books purchased before 2018 by reducing @30%.

```
import pickle as p
```

```
def write():
```

```
    f=open("test.bin","wb+")
```

```
    record=[]
```

```
    while True:
```

```
        acc=int(input("Enter the account number:"))
```

```
        title=input("Enter the title:")
```

```
        year=int(input("Enter the year:"))
```

```
        price=int(input("Enter the price :"))
```

```
list1=[acc,title,year,price]
record.append(list1)
choice=input("want to enter more(y/n?)")
if(choice == 'n'):
    break
p.dump(record,f)
print ("the records are written successfully")
f.close()
write()
```

```
def read():
    f1=open("test.bin","rb+")
    r=p.load(f1)
    print (r)
read()
```

```
def search():

    f2=open("test.bin","rb+")
    year=int(input("Enter the year to search:"))
    r1=p.load(f2)
    flag=0
    for i in r1:
        if i[2]==year:
            print(i)
search()
```

```
def valid_year(year1):
    f3=open("test.bin","rb+")
    r2=p.load(f3)
    if year1 and year1.isdigit():
        if int(year1) <=2018 :
```

```
for i in r2:  
    print(i[3]-(i[3]*0.30))
```

```
valid_year('2018')
```