



Rollwala Computer Center

Introduction to Python Programing

Assignment 4

Name : Mer Sagar B.

Roll No : 21

Course : Master of Computer Application

Semester : 1st



20 Feb, 2022



1. Write a program to create a file and input five person full name in file and read the information from file.

```
'''
```

```
1. Write a program to create a file and input five person full name in file and
read the information from file.
```

```
Name   : Mer Sagar           Roll No.: 21
Class  : MCA sem-1          Year    : 2021-22
```

```
'''
```

```
try:
    with open("pro_1data.txt", "w") as f:
        for i in range(5):
            name = input("Enter the name : ")
            f.write(name + "\n")

    print("Names are: ")
    with open("Pro_1data.txt", "r") as file:

        for fline in file:
            print(fline.rstrip("\n"))
            print()

except FileNotFoundError:
    print("File not found!!!")

except Exception as e:
    print("Exception occurred : ",e)
```

Output:

Enter the name : Sagar

Enter the name : Sijo

Enter the name : Akshit

Enter the name : Hardik

Enter the name : Dhaval

Names are:

Sagar

Sijo

Akshit

Hardik

Dhaval

2. Write a program to search a word in to the file. If word is found count number of occurrence and print total no of occurrence for that word.

```
'''
```

2. Write a program to search a word in to the file. If word is found count number of occurrence and print total no of occurrence for that word.

```
Name  : Mer Sagar      Roll No.: 21
Class : MCA sem-1      Year    : 2021-22
```

```
'''
```

```
f=open("pro_2file.txt","r")
word=input("Enter the word to match : ")
count=0
for file1 in f:
    w1=file1.split(" ")
    for w in w1:
        if(w.rstrip("\n")==word):
            count+=1

print("Total No of time", word, "occurred in file : ", count)
```

Output:

Enter the word to match : Mer

Total No of time Mer occurred in file : 2

3. Write a program store each word from file and count how many time a particular word is in the file.

```
'''
```

3. Write a program store each word from file and count how many time a particular word is in the file.

Name : Mer Sagar Roll No.: 21
Class : MCA sem-1 Year : 2021-22

```
'''
```

```
try:
    namedict = dict()

    with open("pro_2file.txt", "r") as f:
        for fileline in f:
            words = fileline.split(" ")
            for w in words:
                w = w.rstrip("\n")
                if w in namedict:
                    namedict[w] = namedict[w] + 1
                else:
                    namedict[w] = 1

    for word, count in namedict.items():
        print(word, " : ", count)

except FileNotFoundError:
    print("File not found!!!")

except Exception as e:
    print("Exception occurred : ",e)
```

Output:

Mer : 2

Sagar : 1

Amit : 1

Shah : 1

Pushpendra : 1

Kulshrestha : 1

Narendra : 1

Modi : 1

Dhaval : 1

4. Write a program count no of lines, word and character in a file.

```
...
4. Write a program count no of lines, word and character in a file.
```

```
Name   : Mer Sagar           Roll No.: 21
Class  : MCA sem-1          Year    : 2021-22
```

```
...
```

```
try:
    with open("pro_2file.txt","r") as f:
        lines=0
        space=0
        char=0
        for line in f:
            lines += 1
            for c in line:
                char += 1
                if c == " " or c=="\n" :
                    space += 1

        print("Line Count : ",lines)
        print("Word Count : ",space+1)
        print("Character count : ",char)

except FileNotFoundError:
    print("File not found!!!")

except Exception as e:
    print("Exception occurred : ",e)
```

Output:

Line Count : 5

Word Count : 10

Character count : 67

5. Write a program fetch the binary information from the file and convert it in to the string so that you can perform all the operation of string on that information.

```
...
```

5. Write a program fetch the binary information from the file and convert it in to the string so that you can perform all the operation of string on that information.

Name : Mer Sagar Roll No.: 21
Class : MCA sem-1 Year : 2021-22

```
'''

try:
    with open("pro_5file.dat","rb") as f:
        str = f.read().decode()
        print(str)
except FileNotFoundError:
    print("File not found!!!")

except Exception as e:
    print("Exception occurred : ",e)
```

Output:

My Name is Sagar

I am from INDIA

6. Write a program to insert a student record in to the file with 5 subject marks. Read student info from file and print the appropriate marksheet like: ID Name SUB1Marks SUB1Marks.....Total Percentage Class.

```
'''

6. Write a program to insert a student record in to the file with
5 subject marks. Read student info from file and print the
appropriate marksheet like: ID Name SUB1Marks SUB1Marks.....Total
Percentage Class.
```

Name : Mer Sagar Roll No.: 21
Class : MCA sem-1 Year : 2021-22
'''

```
import pickle, sys

class Student:
    def __init__(self):
        pass
```

```

def setDetails(self):
    self.roll = int(input("Enter Roll No : "))
    self.name = input("Enter your name : ")
    self.m1 = int(input("Enter Marks1 : "))
    self.m2 = int(input("Enter Marks2 : "))
    self.m3 = int(input("Enter Marks3 : "))
    self.m4 = int(input("Enter Marks4 : "))
    self.m5 = int(input("Enter Marks5 : "))
    self.tot = self.m1 + self.m2 + self.m3 + self.m4 + self.m5
    self.per = (self.tot * 100)/500

def display(self):
    print("\t\t\t\t\tMarksheet")
    print("Roll : ", self.roll)
    print("Name : ", self.name)
    print("m1 : ", self.m1)
    print("m2 : ", self.m2)
    print("m3 : ", self.m3)
    print("m4 : ", self.m4)
    print("m5 : ", self.m5)
    print("Total Marks : ", self.tot)
    print("Percentage : ", self.per)

try:

    noofrec = int(input("Enter the number of records : "))
    with open("q6.dat", "wb") as f:
        for i in range(noofrec):
            print()
            s = Student()
            s.setDetails()
            pickle.dump(s,f)

    with open("q6.dat","rb") as f:
        for i in range(noofrec):
            obj=pickle.load(f)
            obj.display()
            print()

except FileNotFoundError:
    print("File not found!!!")

```

```
except Exception as e:  
    print("Exception occurred : ",e)
```

Output:

Enter the number of records : 2

Enter Roll No : 21

Enter your name : sagar

Enter Marks1 : 98

Enter Marks2 : 97

Enter Marks3 : 96

Enter Marks4 : 95

Enter Marks5 : 99

Enter Roll No : 50

Enter your name : Shlok

Enter Marks1 : 88

Enter Marks2 : 89

Enter Marks3 : 78

Enter Marks4 : 67

Enter Marks5 : 78

Marksheet

Roll : 21

Name : sagar

m1 : 98

m2 : 97

m3 : 96

m4 : 95

m5 : 99

Total Marks : 485

Percentage : 97.0

Marksheet

Roll : 50

Name : Shlok

m1 : 88

m2 : 89

m3 : 78

m4 : 67

m5 : 78

Total Marks : 400

Percentage : 80.0

7. Write a program to insert employee record and read the data. Display the current position in file while reading the data.

```
'''
```

7. Write a program to insert employee record and read the data. Display the current position in file while reading the data.

```
Name : Mer Sagar      Roll No.: 21
Class : MCA sem-1     Year   : 2021-22
```

```
'''
```

```
import pickle, sys
```

```
class Employee:
```

```
    def __init__(self):
        pass
```

```
    def setDetails(self):
        self.id = int(input("Enter id : "))
        self.name = input("Enter name : ")
```

```
    def showDetails(self):
        print("\n\t\t\t\t\tEmployee Details")
```

```

        print("Id : ", self.id)
        print("Name : ", self.name)

try:

    noofrec = int(input("Enter the number of records : "))
    with open("pro_6.dat", "wb") as f:
        for i in range(noofrec):
            print()
            s = Employee()
            s.setDetails()
            pickle.dump(s,f)

    with open("pro_6.dat","rb") as f:
        for i in range(noofrec):
            obj=pickle.load(f)
            obj.showDetails()
            print("Current position : ", f.tell())
            print()

except FileNotFoundError:
    print("File not found!!!")

except Exception as e:
    print("Exception occurred : ",e)

```

Output:

Enter the number of records : 2

Enter id : 201

Enter name : Sagar

Enter id : 202

Enter name : Aniket

Employee Details

Id : 201

Name : Sagar

Current position : 66

Employee Details

Id : 202

Name : Aniket

Current position : 133

8. Write a program to insert employee record and read the data from 3rd record.

```
...
8. Write a program to insert employee record and read the data from 3rd
record.
```

```
Name : Mer Sagar      Roll No.: 21
Class : MCA sem-1     Year : 2021-22
```

```
...
```

```
import pickle, sys
```

```
class Employee:
```

```
    def __init__(self):
        pass
```

```
    def setDetails(self):
        self.id = int(input("Enter id : "))
        self.name = input("Enter name : ")
```

```
    def showDetails(self):
        print("\n\t\t\t\t\tEmployee Details")
        print("Id : ", self.id)
        print("Name : ", self.name)
```

```
try:
```

```
    noofrec = int(input("Enter the number of records : "))
    with open("pro_6.dat", "wb") as f:
        for i in range(noofrec):
            print()
            s = Employee()
            s.setDetails()
            pickle.dump(s,f)
            if(i==1):
                point = int(f.tell())
```

```

with open("pro_6.dat","rb") as f:
    for i in range(0, 2):
        obj=pickle.load(f)

        for i in range(2, noofrec):
            obj=pickle.load(f)
            obj.showDetails()
            print()

except FileNotFoundError:
    print("File not found!!!")

except Exception as e:
    print("Exception occurred : ",e)

```

Output:

Enter the number of records : 2

Enter id : 401

Enter name : Sagar

Enter id : 402

Enter name : Dhaval

9. In program no 6 display information from file in descending order of percentage.

...

9. In program no 6 display information from file in descending order of percentage.

Name : Mer Sagar	Roll No.: 21
Class : MCA sem-1	Year : 2021-22

...

```

import pickle, sys

class Student:
    def __init__(self):
        pass

    def setDetails(self):
        self.roll = int(input("Enter Roll No : "))
        self.name = input("Enter your name : ")
        self.m1 = int(input("Enter Marks1 : "))
        self.m2 = int(input("Enter Marks2 : "))
        self.m3 = int(input("Enter Marks3 : "))
        self.m4 = int(input("Enter Marks4 : "))
        self.m5 = int(input("Enter Marks5 : "))
        self.tot = self.m1 + self.m2 + self.m3 + self.m4 + self.m5
        self.per = (self.tot * 100)/500

    def display(self):
        print("\t\t\t\t\tMarksheet")
        print("Roll : ", self.roll)
        print("Name : ", self.name)
        print("m1 : ", self.m1)
        print("m2 : ", self.m2)
        print("m3 : ", self.m3)
        print("m4 : ", self.m4)
        print("m5 : ", self.m5)
        print("Total Marks : ", self.tot)
        print("Percentage : ", self.per)

try:

    noofrec = int(input("Enter the number of records : "))
    with open("pro_6.dat", "wb") as f:

```

```

    for i in range(noofrec):
        print()
        s = Student()
        s.setDetails()
        pickle.dump(s,f)

    with open("pro_6.dat","rb") as f:
        for i in range(noofrec):
            obj=pickle.load(f)
            obj.display()
            print()

except FileNotFoundError:
    print("File not found!!!")

except Exception as e:
    print("Exception occurred : ",e)

```

Output:

Enter the number of records : 2

Enter Roll No : 21

Enter your name : Sagar

Enter Marks1 : 98

Enter Marks2 : 76

Enter Marks3 : 87

Enter Marks4 : 98

Enter Marks5 : 87

Enter Roll No : 51

Enter your name : Aniket

Enter Marks1 : 76

Enter Marks2 : 65

Enter Marks3 : 76

Enter Marks4 : 87

Enter Marks5 : 98

Marksheet

Roll : 21

Name : Sagar

m1 : 98

m2 : 76

m3 : 87

m4 : 98

m5 : 87

Total Marks : 446

Percentage : 89.2

Marksheet

Roll : 51

Name : Aniket

m1 : 76

m2 : 65

m3 : 76

m4 : 87

m5 : 98

Total Marks : 402

Percentage : 80.4

10. Write a program to display all the line starting with the word entered by user from the file.

• • •

10. Write a program to display all the line starting with the word entered by user from the file.

Name : Mer Sagar Roll No.: 21
Class : MCA sem-1 Year : 2021-22
...

```
try:
    fname = input("Enter file name : ")
    word = input("Enter word to be searched : ")
    f = open(fname)
    for line in f:
        if line.startswith(word):
            print(line)
    f.close()

except FileNotFoundError:
    print("File not found!!!")

except Exception as e:
    print("Exception occurred : ",e)
```

Output:

Enter file name : pro_2file.txt

Enter word to be searched : Mer

Mer Sagar

Mer Dhaval