

CBSE Term-1 Practical (2021-22)

Class-XII

Subject:- Computer Science Subject Code:- 083

Q1. Write A Python Program To Read A Text File Line By Line And Display Each Word Separated By #.

Program Code:-

```
file = open('Random Text.txt', 'r')

content = file.readlines()
outStr = ''

for i in range(len(content)):
    outStr += content[i]

outStr = outStr.replace('.', ' ')
outStr = outStr.replace(',', ' ')
outStr = outStr.replace(' ', '#')

print(outStr)
```

Output:-

```
C:\Python39-64\python.exe "C:/Users/prath/OneDrive/Desktop/Computer Practical/Class XII/Practical Term-1/Question-2.py"
Silicon#is#a#chemical#element#with#the#symbol#Si#and#atomic#number#14#
It#is#a#hard#brittle#crystalline#solid#with#a#blue-grey#metallic#lustre#and#is#a#tetravalent#metalloid#and#semiconductor#
It#is#a#member#of#group#14#in#the#periodic#table:#carbon#is#above#it;#and#germanium#tin#lead#and#flerovium#are#below#it#
It#is#relatively#unreactive##Because#of#its#high#chemical#affinity#for#oxygen#it#was#not#until#1823#that#JÃ¶ns#Jakob#Berzeli
Its#oxides#form#a#family#of#anions#known#as#silicates##Its#melting#and#boiling#points#of#1414#Â°C#and#3265#Â°C#respectively#
It#is#most#widely#distributed#in#space#in#cosmic#dusts#planetoids#and#planets#as#various#forms#of#silicon#dioxide#(silica)#o
More#than#90%#of#the#Earth's#crust#is#composed#of#silicate#minerals#making#silicon#the#second#most#abundant#element#in#the#E
Silicon#is#a#natural#element#and#when#not#previously#present#has#a#residence#time#of#about#400#years#in#the#world's#oceans#

Process finished with exit code 0
```

Q2. Write A Python Program To Create A CSV File By Entering User-Id And Password, Read And Search The Password For Given User-Id.

Program Code:-

```
import csv

Labels = ['Username', 'Password']
File = open('UserId Record.csv', 'a+', newline='')

Writer = csv.writer(File)
Reader = csv.reader(File)
File.seek(0, 0)

for content in Reader:
    if content == Labels:
        break
    else:
        Writer.writerow(Labels)
        break

def insertRec():
    Entries = []
    while True:
        userName = input('Enter The Username:- ')
        password = input('Enter The Password:- ')

        Entries.append([userName, password])

        choice = input('Wish To Continue(Y/n):- ')
        if choice.lower() == 'n':
            Writer.writerows(Entries)
            break

def readRec():
    File.seek(0, 0)
```

```

def readRec():
    File.seek(0, 0)
    for record in Reader:
        if record != Labels:
            print(f'Username:- {record[0]}')
            print(f'Password:- {record[1]}')

def searchRec():
    while True:
        UserID = input('Enter The Username:- ')
        File.seek(0, 0)
        for record in Reader:
            if record[0] == UserID:
                print(f'Username:- {record[0]}')
                print(f'Password:- {record[1]}')

def searchRec():
    while True:
        UserID = input('Enter The Username:- ')
        File.seek(0, 0)
        for record in Reader:
            if record[0] == UserID:
                print(f'Username:- {record[0]}')
                print(f'Password:- {record[1]}')
                break
        choice = input('Wish To Continue(Y/n):- ')
        if choice.lower() == 'n':
            break

print('To Read :- r\n'
      'To Insert :- i\n')

```

```

print('To Read :- r\n'
      'To Insert :- i\n'
      'To Search :- s\n'
      'To Exit :- x')
while True:
    uChoice = input('Enter The Operation(r/i/s/x):- ')
    if uChoice.lower() == 'r':
        readRec()
    elif uChoice.lower() == 's':
        searchRec()
    elif uChoice.lower() == 'i':
        insertRec()
    elif uChoice.lower() == 'x':
        break
    else:
        print('\033[1;31;1mYou Entered A Wrong Choice!\033[0m')

```

Output:-

C:\Python39-64\python.exe "C:/Users/prath/OneDrive/Desktop/Computer Practical/Class XII/Practical Term-1/Question-1.py"

```

To Read :- r
To Insert :- i
To Search :- s
To Exit :- x
Enter The Operation(r/i/s/x):- r
Username:- Aadya
Password:- 123456
Username:- Prathmesh
Password:- ewrt24
Enter The Operation(r/i/s/x):- i
Enter The Username:- Nandini
Enter The Password:- 32tr76
Wish To Continue(Y/n):- y
Enter The Username:- Sachin
Enter The Password:- fg65r4
Wish To Continue(Y/n):- n
Enter The Operation(r/i/s/x):- s
Enter The Username:- Nandini
Username:- Nandini
Password:- 32tr76
Wish To Continue(Y/n):- n
Enter The Operation(r/i/s/x):- x

```

Process finished with exit code 0