

PYTHON SUMMER PROJECT

Student Management System

Q) Accept the student details and store in file. Display the contents when asked. Using the contents of the file you should be able to search for records of students, add marks for each student, check for the fee dues, etc...

ANS) CODE:

```
def a(file):
```

```
    file = open("student.txt", "r")
```

```
    name = input("Enter the name of the student whose records are to be found:")
```

```
    name = name.lower()
```

```
    name = name.capitalize()
```

```
    for line in file:
```

```
        for words in line.split():
```

```
            if name == words:
```

```
                print (line)
```

```
    file.close()
```

```
def b(file):
```

```
    file = open("student.txt", "a")
```

```
    limit = int(input("Enter the number of records to be added:"))
```

```
    for i in range(limit):
```

```
        rollno = input("Enter roll number:")
```

```
name = input("Enter name:")
sub = input("Enter subject:")
marks = input("Enter marks:")
fee = input("Enter fee status:")
attendance = input("Enter attendance percentage:")

file.write(rollno)
file.write("\t")
file.write("\t")
file.write(name)
file.write("\t")
file.write("\t")
file.write(sub)
file.write("\t")
file.write("\t")
file.write(marks)
file.write("\t")
file.write("\t")
file.write(fee)
file.write("\t")
file.write("\t")
file.write(attendance + "%")
file.write("\n")
file.close()
```

```

file = open("student.txt", "r")

text = file.read()

print ("ROLL NO" + "\t" + "\t" + "NAME" + "\t" + "\t" + "SUBJECT" + "\t" + "\t"
+ "MARKS" + "\t" + "\t" + "FEE STATUS" + "\t" + "\t" + "ATTENDANCE%" + "\n")

print (text)

file.close()

def c(file):

    file = open("student.txt", "r")

    for line in file:

        for words in line.split():

            if "incomplete" in words:

                print (line)

    file.close()

def menu():

    print ("MENU:")

    print ("a) looking up a student's record (nothing will show if the given
student's record does not exist)")

    print ("b) adding records to existing file")

    print ("c) displaying record of students whose fees are incomplete (nothing
will show if no student's fees are incomplete)")

    file = open("student.txt", "r")

    choice = input("Do you want to execute any of the above menu options?
(y/n):")

    while choice=="y" or choice=="Y":

        menu = input("Enter option to be executed:")

```

```

if menu=="a" or menu=="A":
    a(file)
elif menu=="b" or menu=="B":
    b(file)
elif menu=="c" or menu=="C":
    c(file)
else:
    print ("Invalid input")
    choice=input("Do you want to continue? (y/n):")
file.close()
def show(file):
    file = open("student.txt", "r")
    choice = input("Do you want to see the records? (y/n):")
    print ("ROLL NO" + "\t" + "\t" + "NAME" + "\t" + "\t" + "SUBJECT" + "\t" +
"\t" + "MARKS" + "\t" + "\t" + "FEE STATUS" + "\t" + "\t" + "ATTENDANCE%" +
"\n")
    if choice=="y" or choice=="Y":
        text = file.read()
        print (text)
        choice = 'n'
    file.close()
    menu()
def writing():
    file = open("student.txt", "w")

```

```
limit = int(input("Enter a limit:"))  
for i in range(limit):  
    rollno = input("Enter roll number:")  
    name = input("Enter name:")  
    sub = input("Enter subject:")  
    marks = input("Enter marks:")  
    fee = input("Enter fee status:")  
    attendance = input("Enter attendance percentage:")  
    file.write(rollno)  
    file.write("\t")  
    file.write("\t")  
    file.write(name)  
    file.write("\t")  
    file.write("\t")  
    file.write(sub)  
    file.write("\t")  
    file.write("\t")  
    file.write(marks)  
    file.write("\t")  
    file.write("\t")  
    file.write(fee)  
    file.write("\t")  
    file.write("\t")
```

```
file.write(attendance + "%")
```

```
file.write("\n")
```

```
file.close()
```

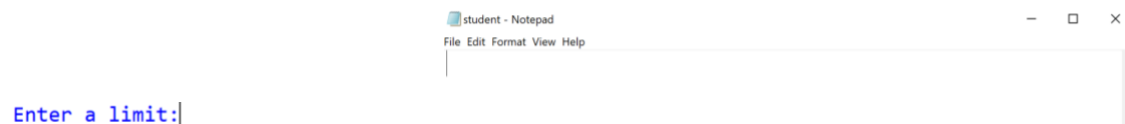
```
show(file)
```

```
writing()
```

OUTPUT:

- Step-by-Step output:

#initially when no information is entered, i.e. when the program has just started.



#when information is entered.

```
Enter a limit:2
Enter roll number:1001
Enter name:Ankit
Enter subject:Physics
Enter marks:98
Enter fee status:complete
Enter attendance percentage:87
Enter roll number:1002
Enter name:Rekha
Enter subject:Python
Enter marks:77
Enter fee status:incomplete
Enter attendance percentage:98
Do you want to see the records? (y/n):y
```

ROLL NO	NAME	SUBJECT	MARKS	FEE STATUS	ATTENDANCE%
1001	Ankit	Physics	98	complete	87%
1002	Rekha	Python	77	incomplete	98%

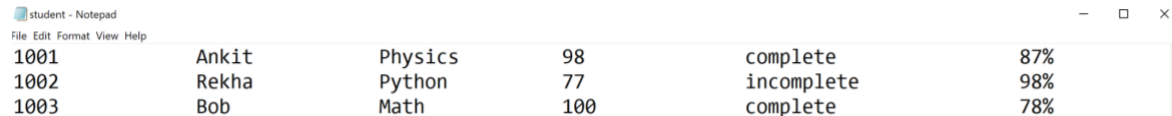
```
MENU:
a)looking up a student's record(nothing will show if the given student's record does not exist)
b)adding records to existing file
c)displaying record of students whose fees are incomplete (nothing will show if no student's fees are incomplete)
Do you want to execute any of the above menu options? (y/n):|
```



#when information is added to existing file.

```
MENU:
a)looking up a student's record(nothing will show if the given student's record does not exist)
b)adding records to existing file
c)displaying record of students whose fees are incomplete (nothing will show if no student's fees are incomplete)
Do you want to execute any of the above menu options? (y/n):y
Enter option to be executed:8
Enter the number of records to be added:1
Enter roll number:1003
Enter name:Bob
Enter subject:Math
Enter marks:100
Enter fee status:complete
Enter attendance percentage:78
ROLL NO      NAME      SUBJECT      MARKS      FEE STATUS      ATTENDANCE%
1001         Ankit      Physics      98          complete        87%
1002         Rekha      Python       77          incomplete      98%
1003         Bob        Math         100         complete        78%

Do you want to continue? (y/n):|
```



student - Notepad

1001	Ankit	Physics	98	complete	87%
1002	Rekha	Python	77	incomplete	98%
1003	Bob	Math	100	complete	78%

- Final output:

```
Enter a limit:2
Enter roll number:1001
Enter name:Ankit
Enter subject:Physics
Enter marks:98
Enter fee status:complete
Enter attendance percentage:87
Enter roll number:1002
Enter name:Rekha
Enter subject:Python
Enter marks:77
Enter fee status:incomplete
Enter attendance percentage:98
Do you want to see the records? (y/n):y
ROLL NO      NAME      SUBJECT      MARKS      FEE STATUS      ATTENDANCE%
1001         Ankit      Physics      98          complete        87%
1002         Rekha      Python       77          incomplete      98%

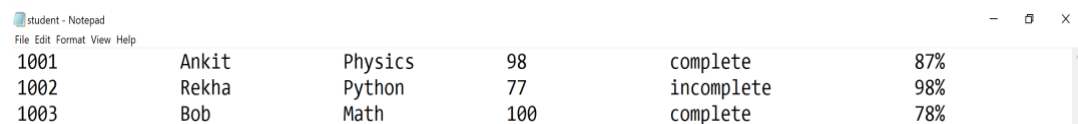
MENU:
a)looking up a student's record (nothing will show if the given student's record does not exist)
b)adding records to existing file
c)displaying record of students whose fees are incomplete (nothing will show if no student's fees are incomplete)
Do you want to execute any of the above menu options? (y/n):y
Enter option to be executed:A
Enter the name of the student whose records are to be found:Ankit
1001         Ankit      Physics      98          complete        87%

Do you want to continue? (y/n):y
Enter option to be executed:a
Enter the name of the student whose records are to be found:reKhA
1002         Rekha      Python       77          incomplete      98%

Do you want to continue? (y/n):y
Enter option to be executed:8
Enter the number of records to be added:1
Enter roll number:1003
Enter name:Bob
Enter subject:Math
Enter marks:100
Enter fee status:complete
Enter attendance percentage:78
ROLL NO      NAME      SUBJECT      MARKS      FEE STATUS      ATTENDANCE%
1001         Ankit      Physics      98          complete        87%
1002         Rekha      Python       77          incomplete      98%
1003         Bob        Math         100         complete        78%

Do you want to continue? (y/n):Y
Enter option to be executed:c
1002         Rekha      Python       77          incomplete      98%

Do you want to continue? (y/n):n
>>>
```



student - Notepad

1001	Ankit	Physics	98	complete	87%
1002	Rekha	Python	77	incomplete	98%
1003	Bob	Math	100	complete	78%

