

# **STUDENT DATA MANAGEMENT**

## **21CSS101J – PROGRAMMING FOR PROBLEM SOLVING**

### **Mini Project Report**

*Submitted by*

**Student Name: Naveen U**

**[Reg. No.: RA2211003010203]**

**B.Tech. Computer Science and Engineering**

**Student Name: Nehaa Karthikeyan**

**[Reg. No.: RA2211003010187]**

**B.Tech. Computer Science and Engineering**



**SCHOOL OF COMPUTING  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY  
(Under Section 3 of UGC Act, 1956)  
S.R.M. NAGAR, KATTANKULATHUR – 603 203  
KANCHEEPURAM DISTRICT  
December 2022**

## **TABLE OF CONTENTS**

<b>Chapter No.</b>	<b>Title</b>	<b>Page No.</b>
1	Problem Statement	3
2	Methodology / Procedure	3
3	Coding (Python)	3-4
4	Results	5
5	Conclusion	5

## Problem Statement:

This program stores the marks and data of students using the CSV Module in Python. This takes the input from the user and calculates the total marks and percentage. It can also display the details of students with respect of their register numbers.

## Methodology / Procedure:

1. Import the CSV Module in the program
2. Take Input from the user
3. Calculate Total marks and percentage
4. Store the data in CSV
5. Display the data of student with respect to register number

## Program (Source code):

```
import csv
with open('student.csv',mode='a') as csvfile:
    mywriter=csv.writer(csvfile,delimiter=',')
    ans='y'
    ans=input("Do you want to Add Details of the Employee?(y/n):")
    while ans.lower()=='y':
        rno=int(input("Enter Student Register Number: "))
        name=input("Enter Student Name: ")
        math=int(input("Enter Student Math Marks: "))
        cse=int(input("Enter Student Computer Science Marks: "))
        chem=int(input("Enter Student Chemistry Marks: "))
        phy=int(input("Enter Student Physics Marks: "))
        eng=int(input("Enter Student English Marks: "))
        total=math+cse+chem+phy+eng
        percent=(total/500)*100
        mywriter.writerow([rno,name,math,cse,chem,phy,eng,total,percent])
        ans=input("Do you want to Add more?(y/n):")

ans='y'
with open('student.csv',mode='r') as csvfile:
    myreader=csv.reader(csvfile,delimiter=',')
    while ans=='y':
        e=int(input("Enter Student Register Number to Search: "))
        for row in myreader:
            if len(row)!=0:
                if int(row[0])==e:
                    print("#####")
                    print("Student Register Number: ",row[0])
                    print("Student Name: ",row[1])
                    print("#####MARKS#####")
                    print("Maths Marks: ",row[2])
                    print("Computer Science Marks: ",row[3])
                    print("Chemistry Marks: ",row[4])
```

```

print("Physics Marks: ",row[5])
print("English Marks: ",row[6])
print("Total Marks: ",row[7])
print("Total Percentage: ",row[8])
print("#####")
break
else:
    print("#####")
    print("#####EMP NOT FOUND#####")
    print("#####")

```

```
ans=input("Do you want to Add Details of the Employee?(y/n):")
```

## Output:

```

IDLE Shell 3.11.0
File Edit Shell Debug Options Window Help
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Naveen\Student Details.py =====
Do you want to Add Details of the Employee(y/n)? :y
Enter Student Register Number: 2
Enter Student Name: Manush
Enter Student Math Marks: 89
Enter Student Computer Science Marks: 85
Enter Student Chemistry Marks: 92
Enter Student Physics Marks: 78
Enter Student English Marks: 95
Do you want to Add more(y/n)? :n
Enter Student Register Number to Search: 1
#####
Student Register Number: 1
Student Name: Avinash
#####MARKS#####
Maths Marks: 78
Computer Science Marks: 89
Chemistry Marks: 75
Physics Marks: 90
English Marks: 97
Total Marks: 429
Total Percentage: 85.8
#####
Do you want to Add Details of the Employee(y/n)? : n
>>>

```

Ln: 11 Col: 5

**Result:**

The Program has been executed successfully and the output is verified.