

Experiment No. 1.4

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Branch: MCA - CCD

Semester: I

Subject Name: Python Programming Lab

UID: 22MCC20039

Section/Group: MCD-1/ Grp B

Date of Performance: 1st Nov 22

Subject Code: 22CAH-645

1. Aim/Overview of the practical:

A. Implement a student class with information such as rollno, name, class. The information must be entered by the user.

B. Create a program to implement library management system using classes and objects

2. Task to be done:

A. To create a class and define a function/method that inputs student details such as roll no., name & class and then displays it on the screen.

B. To create one or more class to implement various methods for Library Management System such as Show all Books, find books, etc...

3. Code for experiment/practical:

A. First Part Code:

```
class Student:

    def student_info():
        roll_no = int(input("Enter Roll No. of the Student: "))
        name = input("Enter Name of the Student: ")
        s_class = input("Enter Class of the Student: ")

        print("Student info are as: ")
        print('Name: ', name, "\nRoll: ", roll_no, "\nClass: ", s_class)
```



```
        "-----\n")

    print("\t\t\t\t\t\t\tEnter the name of Book to Search...
OR\n\t\t\t\t\t\t\tEnter "
        "'All' to view all Books... OR\n\t\t\t\t\t\t\tEnter 0 to Exit\n")

    find = input("\t\t\t\t\t\t\tType here: ")

    if find == '0':
        print("\n\t\t\t\t\t\t\t===== Thank You!
=====")

    elif find == 'All':
        obj.book_details(find)

    else:
        try:
            print(obj.book_details(find))
            print()
        except:
            print()
            print("\t\t\t\t\t\t\tEnter a Valid Name!")
            print()
```

4. Result/Output/Writing Summary:

A.

```
C:\Users\krish\AppData\Local\Microsoft\WindowsApps\python3.10.exe C:/Users/krish/Desktop/tailwind/w.py
Enter Roll No. of the Student: 39
Enter Name of the Student: Rishav
Enter Class of the Student: MCA CCD
Student info are as:
Name: Rishav
Roll: 39
Class: MCA CCD
```

B.

```
C:\Users\krish\AppData\Local\Microsoft\WindowsApps\python3.10.exe C:/Users/krish/Desktop/tailwind/w.py
Enter Roll No. of the Student: 39
Enter Name of the Student: Rishav
Enter Class of the Student: MCA CCD
Student info are as:
Name: Rishav
Roll: 39
Class: MCA CCD

----- WELCOME TO LIBRARY MANAGEMENT SYSTEM -----

Enter the name of Book to Search... OR
Enter 'All' to view all Books... OR
Enter 0 to Exit

Type here: The dark room

----- RESULT -----
{'Writer': 'RK Narayan', 'Year': 1938, 'Available': 'No'}
```

None

Learning outcomes (What I have learned):

- 1. Learned how to create a class and access it or call it later on.**
- 2. Learned to define a method inside the class.**
- 3. Learned to create a Dictionary and store its key value pair.**
- 4. Learned to use nested Dictionary inside a class method and call it using object.**

Evaluation Grid:

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Demonstration and Performance (Pre Lab Quiz)		5
2.	Worksheet		10
3.	Post Lab Quiz		5