Basic of Programming

Student Name: Lucky

UID: 22MCA20083

Branch: MCA

Section/Group: MCA-2/ Grp A

Semester: I

Date of Performance: 27ˢᵗ Oct 22

Subject Name: PYTHON PROGRAMMING

Subject Code: 22CAH-604

Experiment No. 1.4

Task to be done:

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

1. **Code for experiment/practical:**

```python
class Student_Details:
    def __init__(self):
        self.name = input("Enter Your Name: ")
        self.cname = input("Enter Your Class Name: ")
        self.roll = int(input("Enter Your Roll Number: "))
class Temp(Student_Details):
    def display(self):
        print("============ Student Details are ==========")
        print("Name: ", self.name)
        print("College Name:", self.cname)
        print("Roll number:", self.roll)
obj1 = Temp()
obj1.display()
```

Result/Output/Writing Summary:

Shell   Clear

```
Enter Your Name: lucky
Enter Your Class Name: MCA
Enter Your Roll Number: 82
============ Student Details are ==========
Name:  lucky
College Name: MCA
Roll number: 82
>
```

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

Code for experiment/practical:

Programiz Python Online Compiler

main.py   Run

```python
class Library:

    def book_details():
        books = {
            "The Company of Women": {"Writer": "Kushwant Singh", "Year": 1999, "Available": "Yes"},
            "The dark room": {"Writer": "RK Narayan", "Year": 1938, "Available": "No"},
            "Gitanjali": {"Writer": "Rabindranath Tagore", "Year": 1910, "Available": "Yes"},
            "The Suitable boy": {"Writer": "Vikram Seth", "Year": 1993, "Available": "No"},
            "Capitalism: A Ghost Story": {"Writer": "Arundhati Roy", "Year": 2014, "Available": "Yes"},
            "The Maid": {"Writer": "Nita Prose", "Year": 2022, "Available": "Yes"},
            "Pride and Prejudice": {"Writer": "Jane Austen", "Year": 1813, "Available": "No"},
            "Gone with the Wind": {"Writer": "Margaret Mitchell", "Year": 1936, "Available": "Yes"},
            "Crime and Punishment": {"Writer": "Fyodor Dostoyevsky", "Year": 1866, "Available": "No"},
            "Jane Eyre": {"Writer": "Charlotte Brontë", "Year": 1847, "Available": "Yes"},
            "Clean Code": {"Writer": "Robert C. Martin", "Year": 1989, "Available": "Yes"},
            "Introduction to Algorithms": {"Writer": "Thomas H. Cormen, Charles E. Leiserson, "
                                           "Ronald L. Rivest, Clifford Stein", "Year": 1938,
                                           "Available": "No"},
            "SICP": {"Writer": "Harold Abelson, Gerald Jay Sussman, Julie Sussman", "Year": 1910, "Available":
                "Yes"},
            "Code Complete": {"Writer": "Steve McConnell", "Year": 1993, "Available": "No"},
            "The Pragmatic Programmer": {"Writer": "Andrew Hunt, David Thomas", "Year": 1999, "Available":
                "Yes"},
        }
        find = input("Type here: ")
        print(books[find])


    def issue_book():
        print("To issue a book, type its name ")


if __name__ == '__main__':
    print("Enter the name of Book to get Info OR Enter 0 to Exit:")
    try:
        Library.book_details()
        print()
```

OUTPUT:-

```
Shell                                                    Clear

Enter the name of Book to get Info OR Enter 0 to Exit:
Type here: The dark room
{'Writer': 'RK Narayan', 'Year': 1938, 'Available': 'No'}


>
```

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