## FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERIG. Fr. Agnel Ashram, Bandstand, Bandra (W) Mumbai 400050,

**Aim**: Write python programs to implement classes and objects in python.

Define a class student with attributes roll number, name and score and methods to find grade. Grade is 'A' if score >=80, grade is 'B' if score >=60 and score<80, grade is 'C' if score >=50 and score<60 otherwise 'F'.

## **Objective of the Experiment:**

1. Understanding classes and objects in python.

## Source code for the implementation:

(Write only important functions)

Post Labs:

1. Consider the following code:

```
class Clock:
    def __init__(self, time):
        self.time = time
    def print_time(self):
        time = '6:30'
        print self.time
clock = Clock('5:30')
clock.print_time()
```

- (a) What does the code print out? If you aren't sure, create a Python file and run it.
- (b) Is that what you expected? Why?
- 2. Consider the following code:

```
class Clock:
    def __init__(self, time):
        self.time = time
    def print_time(self, time):
        print time
clock = Clock('5:30')
```

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clock.print\_time('10:30')

- (a) What does the code print out? If you aren't sure, create a Python file and run it.
- (b) What does this tell you about giving parameters the same name as object attributes?
- 3. Consider the following code:

```
class Clock:

def __init__(self, time):

self.time = time

def print_time(self):

print self.time

boston_clock = Clock('5:30')

paris_clock = boston_clock

paris_clock.time = '10:30'

boston_clock.print_time()
```

- (a) What does the code print out? If you aren't sure, create a Python file and run it.
- (b) Why does it print what it does? (Are boston clock and paris clock different objects? Why or why not?)