

Arnob Dey Student ID : 203-15-3906 Subject : Object Oriented Programming 2
Lab Report : 7

```
class Student:
    def __init__(self, student_id, student_name, student_class):
        self.student_id = student_id
        self.student_name = student_name
        self.student_class = student_class

    def display(self):
        print("Student ID: ", self.student_id)
        print("Student Name: ", self.student_name)
        print("Student Class: ", self.student_class)

student1 = Student('203-15-3906', "Arnob", 'PC-B')
student1.display()
```

Student ID: 203-15-3906
Student Name: Arnob
Student Class: PC-B

```
class Student:
    def __init__(self, student_id, student_name, student_class):
        self.student_id = student_id
        self.student_name = student_name
        self.student_class = student_class

    def display(self):
        print("Student ID: ", self.student_id)
        print("Student Name: ", self.student_name)
        print("Student Class: ", self.student_class)

    def remove(self):
        self.student_name = ''

student1 = Student('203-15-3906', "Arnob", 'PC-B')
student1.display()
student1.remove()
print('----- New Output -----')
student1.display()
```

Student ID: 203-15-3906
Student Name: Arnob
Student Class: PC-B
----- New Output -----
Student ID: 203-15-3906
Student Name:
Student Class: PC-B

```
class Rectangle:
    def __init__(self, length, width):
        self.length = length
```

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        self.width = width

    def area(self):
        return self.length * self.width

leng = int(input('Enter rectangle length: '))
wid = int(input('Enter rectangle width: '))
rectangle = Rectangle(5, 6)
print(f'Area for a rectangle with length {leng} and width {wid} is: ',
rectangle.area())

```

Area for a rectangle with length 5 and width 6 is: 30

```

class ThreeSum:
    def __init__(self, arr1):
        self.arr1 = arr1
        print(self.arr1)

    def sum1(self):
        n = len(self.arr1)
        for i in range(0, n-2):
            for j in range(i+1, n-1):
                for k in range(j+1, n):
                    if self.arr1[i] + self.arr1[j] + self.arr1[k] ==
0:
                        print(self.arr1[i], self.arr1[j],
self.arr1[k])

```

```

arr1 = [-25, -10, -7, -3, 2, 4, 8, 10]
threeSum = ThreeSum(arr1)
threeSum.sum1()

```

```

[-25, -10, -7, -3, 2, 4, 8, 10]
-10 2 8
-7 -3 10

```

```

class Base:
    def __init__(self, name, id):
        self.name = name
        self.id = id

    def display(self):
        print('Name:\ ', self.name)
        print('Student ID: ', self.id)

```

```

base = Base(input('Enter Name:'), input('Enter Roll:'))
base.display()

```

```

Name: Arnob
Student ID: 203-15-3906

```