

## Lab Assignment-8

Calling constructor

Q1. Implement the concept of default constructor to print the names of students. Take the class name as "Student". If no object name is passed while creating object of the Student class, then the name should be "Unknown". (Hint: implement default constructor) otherwise print a name.

Q2. Write a program to implement default constructor and explicit call to find the area of a rectangle.

Q3. Implement the concept of friend function to print the given patterns:

a)

```
1
2_2
3_3_3
4_4_4_4
5_5_5_5_5
```

b)

```
1
1_2
1_2_3
1_2_3_4
1_2_3_4_5
```

c)

```
a
a-b
a-b-c
a-b-c-d
a-b-c-d-e
```

d)

```
 *
*-*
*-*-*
*-*-*-
*-*-*-*
```

Q4. Implement the concept of ~~de~~ defining default constructor outside class to find the addition of five consecutive numbers.