**Ex. No. 3:** **CONTROL STRUCTURES AND OPERATORS**

**(07/2/2017-12/2/2017)**

**Note: Part I and Part 2 should be recorded in your observation as directed by your mentor**

**Part-I (Who should do Part-I?)**

***Anyone who wants to clear java, hope everyone wants to…….***

a. Write a program with appropriate classes and methods (with proper selection of DATA TYPES based on requirement specified) which finds if a user is student or faculty. If student, your program should be capable of taking inputs like

1. Register Number (assume 5bits)

2. Year of Study (1/2/3/4)

3. Section

4. Scholarship, if any (Assume Formula: CGPA \*10000)

5. Total living (including academic) expenses for 4 years

6. Total number of Students in your campus

7. Total number of students in University across all campuses and all disciplines

And prints it like: You are a student with Register Number 12345 and you belong to II C and eligible for a scholarship of 92000 per year as your CGPA is 9.2 and your total living expense is 500000.6789. Total number of students in your campus is 8000 and across campus is 25000.

Else if Faculty, print “Permission denied to enter details”

b. Evaluate and code taking values from user using command line and Scanner:

a|4+c>>b&7

c. Write a program to display

**Winter**: if month is December or January or February

**Summer**: if month is March or April or May

**Spring**: if month is June or July or August

**Autumn**: if month is September or October or November

[**Hint:** can use numbers to represent months like 12 means December or enum or switch with strings (feature from java7 onwards)]

d. Write a Program to demonstrate Access Specifiers in same package and other package in Java.