Lab 4: User-defined PL/SQL Procedures and PL/SQL Packages

4. Review Questions

A. Write necessary PL/SQL statements to create the following components:

4) Declare a cursor named **course\_cursor** that self-join a table **course** (of **Registration**script) to display **course names** and its **course pre-requisites**.

1. **DECLARE**
2. **CURSOR** course\_cursor **IS**
3. **SELECT** c1.course\_name **as** course, c2.course\_name **as** prereq\_course,
4. c1.prereq **as** prereq
5. **FROM** course c1
6. LEFT OUTER JOIN course c2
7. **ON** c1.prereq = c2.course\_no;
8. course\_cursor\_row   course\_cursor%ROWTYPE;
9. dash varchar2(80);
10. **BEGIN**
11. dash := rpad('-', 60, '-');
12. **OPEN** course\_cursor;
13. dbms\_output.put\_line(rpad('Course name', 30, ' ')
14. || '|' || lpad('Pre-requisites', 20, ' '));
15. dbms\_output.put\_line(dash);
16. LOOP
17. **FETCH** course\_cursor
18. **INTO** course\_cursor\_row;
19. EXIT **WHEN** course\_cursor%NOTFOUND;
20. IF (course\_cursor\_row.prereq **is** NULL) **THEN**
21. dbms\_output.put\_line(rpad(course\_cursor\_row.course,30,' ')
22. || '|  No Pre-requisites');
23. **ELSE**
24. dbms\_output.put\_line(rpad(course\_cursor\_row.course,30,' ')
25. || '|  ' || course\_cursor\_row.prereq\_course);
26. **END** IF;
27. **END** LOOP;
28. **CLOSE** course\_cursor;
29. **END**;

