S.Lakshmi Priya
Assistant Professor | CSE
Object Oriented Programming Using Java Lab
2019-2020 Odd – III Semester C Section
Assignment – 3: Inhertiance Date: 16-07-2019

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1. Write a java program with a class named ‘Box’ with three parameters length, width and depth. Inherit a class named ‘BoxWeight’ from ‘Box’ with an additional member weight of the box. Inherit ‘BoxShipment’ from ‘BoxWeight’ with an additional member shipmentcost. Calculate the volume and cost for the box on shipment.

2. Develop a Java application with Employee class with Emp_name, Emp_id, Address, Mail_id, Mobile_no as members. Inherit the classes, Programmer, Assistant Professor, Associate Professor and Professor from employee class. Add Basic Pay (BP) as the member of all the inherited classes with 97% of BP as DA, 10 % of BP as HRA, 12% of BP as PF, 0.1% of BP for staff club fund. Generate pay slips for the employees with their gross and net salary.

3. Write a Java program with a class named ‘Person’ which consists of name, age, DOB and address. Have functions to get input and calculate_performance. Derive a class named ‘Student’ from ‘Person’ class with additional members like department, marks, extra-curricular. Calculate performance of Student (Outstanding, Excellent, Good, Fair) based on the grade and extra-curricular activities. Derive a class named ‘Professor’ from ‘Person’ with additional members like department, number of publications and funded projects. Calculate performance of Professor based on the number of publications and funded projects. In main get ‘n’ number of Persons' information and calculate the performance.
