

Session-5 Lab

1. Write a program to define an employee class. The class should have three attributes - employeeID (int) and employeeName (String). Add a constructor. Overwrite the equals() method so that two employees will be equal if their employeeID are the same. Do not add any hashCode() method. Now create three employee instances with different employeeID. Create a HashSet object and add all these three employees to the set. Create another employee with the same employeeID of the first employee. Add this employee to the hashset. Observe if the employee is added or not. Print all the employees added in the hashset.

2. Create a Student class that takes studentName and studentID. Now override both equal() and hashCode() based on studentID only. (Note: Students can use the Objects.hash() method to generate hashcodes or else they can write custom logic to generate unique hashcodes.) Add a constructor. Create a few students and add them to a HashSet. Now add another student with the same studentID to the set. Is it possible to add the new student or it just replaced the previous student ?