

## (Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

**CSE1001 – Problem Solving Using JAVA LAB LABSHEET – 4**

**Module 4- Inheritance and Polymorphism**

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| Q1 | A delivery boy is talking to the customer who is working in one organization. The delivery boy wants to know the address to deliver the product. Then the customer is giving the address of both organization and home address. The delivery boy wants to store these address in his application but there is only one column. Help him to store both addresses without override the values. |
| Program-1 | class Organization  {  public void address() // this is called overridden method  {  System.out.println("Rajankunte,Bengaluru");  }  }  class Employee extends Organization  {  public void address() // this is called overridding method  {  System.out.println("Hebbal,Bengaluru");  }  }  class Overriding2  {  public static void main(String args[])  {  Organization o=new Organization();  Organization e=new Employee();  o.address();  e.address();  }  } |
| OUTPUT | Rajankunte,Bengaluru  Rajankunte,Bengaluru |
| Q2 | A teacher is having marks list of her students. One of the student is asked to share his marks. She is worrying that if she shared the marks to the student he may edit. So help her to share the marks without editing.  Note: Try to modify marks, compile the program and analyze the concept. |
| Program-2 | class Teacher  {  final int marks=75;  void show()  {  System.out.println("List of marks");  }  }  class Student extends Teacher  {  void show()  {  System.out.println("Student:"+marks);  }  }  class FinalLab  {  public static void main(String args[])  {  Teacher t=new Teacher();  Teacher s=new Student();  t.show();  s.show();  }  } |
| OUTPUT | List of marks  Student:75 |