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| *A close up of a logo  Description automatically generated* | *DEPARTMENT OF COMPUTER ENGINEERING* |

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| Semester | S.E. Semester III – Computer Engineering |
| Subject | Object Oriented Programming Using Java (Skill Based Lab) |
| Subject Professor In-charge | Prof. Indu Anoop |
| Laboratory | Online Lab |

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| Student Name | Trisha Shah | |
| Roll Number | 20102A0004 | |
| Grade and Subject Teacher’s Signature |  |  |

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| Experiment | 8C | |
| Problem Statement | WAP to demonstrate Types of Inheritance | |
| Resources / Apparatus Required | Hardware: Computer System | Software: jdk 1.8, Eclipse / Notepad++/IntelliJ IDEA |
| Details | When two or more classes inherits a single class, it is known as hierarchical inheritance. In the example given below, Dog and Cat classes inherits the Animal class, so there is hierarchical inheritance. | |
| Code | class Animal {  void eat(){  System.out.println("eating...");  }  }  class Dog extends Animal {  void bark(){  System.out.println("barking...");  }  }  class Cat extends Animal {  void meow(){  System.out.println("meowing...");  }  }  class TestHeirarchialInheritance {  public static void main(String args[]) {  Cat c=new Cat();  c.meow();  c.eat();  //c.bark();//Compile Time Error  }  } | |
| Output |  | |
| Conclusion | The students were able to successfully demonstrate Heirarchial Inheritance in the program. | |