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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 | 10 | |
| Problem Statement | To demonstrate Abstract class and Abstract method | |
| Resources / Apparatus Required | Hardware: Computer System | Software: jdk 1.8, Eclipse / Notepad++/IntelliJ IDEA |
| Details | Abstract Class:-  A class which is declared as abstract is known as an abstract class. It can have abstract and non-abstract methods. It needs to be extended and its method implemented. It cannot be instantiated.  Abstract Method:-  A method which is declared as abstract and does not have implementation is known as an abstract method. | |
| Code | abstract class Bike{  abstract void run();  }  class Honda4 extends Bike{  void run(){  System.out.println("running safely");  }  public static void main(String args[]){  Bike obj = new Honda4();  obj.run();  }  } | |
| Output |  | |
| Conclusion | Thus, we could successfully implement abstract classes in the program | |