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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 | 1A | |
| Problem Statement | To learn control statements for branching: else-if ladder,for loop etc . Problem Statement: Create a java program to grade students >=75 Distinction, 60-75:First Class, 50-60 : Second class, <50 : Fail | |
| Resources / Apparatus Required | Hardware: Computer System | Software: jdk 1.8, Eclipse / Notepad++/IntelliJ IDEA |
| Details | else-if Ladder: Here, a user can decide among multiple options. The if statements are executed from the top down. As soon as one of the conditions controlling the if is true, the statement associated with that if is executed, and the rest of the ladder is bypassed. If none of the conditions is true, then the final else statement will be executed.  for loop: for loop provides a concise way of writing the loop structure. Unlike a while loop, a for statement consumes the initialization, condition and increment/decrement in one line thereby providing a shorter, easy to debug structure of looping. | |
| Code | public class StudentGrades {  public static void main(String[] args) {  //Dataset  String name[]= {"Indu","Rohan","Ruchi","Sammy"};  int marks[]= {81,75,43,58};  for(int i=0;i<marks.length;i++) {  if(marks[i]>=75)  System.out.println("Congrats "+name[i] +" you have got Distinction");  else if(marks[i]>60)  System.out.println("Congrats "+name[i] +" you have got First Class");  else if(marks[i]>50)  System.out.println("Congrats "+name[i] +" you have got Second Class");  else  System.out.println("Status "+name[i] +" you have not cleared: FAIL");  }  }  } | |
| Output |  | |
| Conclusion | We learned how to successful use the if else ladder and for loops in the program. | |