**INDEX SHEET**

**Name:-Krutika Punpreddiwar Branch:- ETC Year:- 3rd RollNo:ET21005**

**Course:- Java Programming No. of Practicals in Journal:-10**

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| **Sr. No.** | **Name of Experiment** | **Page No.** | **Date of Performance** | **Date of Submission** | **Sign. Of Teacher** |
| **1.** | **Practical No.1**  Construct a class, Grader, which has an instance variable, score, and appropriate method. A method, letterGrade() that returns the letter grade as O/E/A/B/C/F. Now construct a demo class to test the Grader class by reading a score from the user, using it to create a Grader object after validating that the value is not negative and is not greater than 100. Finally, call the letterGrade() method to get and print the grade. |  | 21/08/2023  25/08/2023  28/08/2023 | 01/09/2023 |  |
| **2.** | **Practical No.2**  Construct a class, Commission, which has an instance variable, sales; an appropriate constructor; and a method, commission () that returns the commission. Now construct a demo class to test the Commission class by reading a sale from the user, using it to create a Commission object after validating that the value is not negative. Finally, call the commission () method to get and print the commission. If the sales are negative, your demo should print the message “Invalid Input”. |  | 01/09/2023  04/09/2023 | 08/09/2023 |  |
| **3.** | **Practical No.3**  Develop an interface to calculate and print the area  of different 2D Shapes. Give name of the interface as “Area”. Create a menu driven program to provide the user menu to choose and calculate Area of different 2D shapes such as circle, triangle and rectangle etc. |  | 08/09/2023  11/09/2023  18/09/2023 | 06/10/2023 |  |
| **4.** | **Practical No.4**  Create a program which holds the details of Laptop Manufacturing industries with attributes such as name and price in a collection as below:   1. HP , 52,000/- 2. Dell, 80,000/- 3. Lenovo, 90,000/- 4. Sony, 1,20,000/- 5. Apple, 1,50,000/-   Filter this collection using stream to filter out all the companies with laptop prices greater than 80,000/-. |  | 06/10/2023  16/10/2023 | 20/10/2023 |  |
| **5.** | **Practical No.5**  Construct a database of item numbers of sold items in an Inventory shop on a particular day. Item numbers are to be given by the end user at runtime. Determine the mostly sold item from the database. |  | 20/10/2023  23/10/2023 | 27/10/2023 |  |
| **6.** | **Practical No.6**  Construct a program to print the following details of a given URL.   1. Protocol 2. Hostname 3. Port Number 4. Default Port Number 5. Query String 6. Path 7. File |  | 27/10/2023  30/10/2023 | 03/11/2023 |  |
| **7.** | **Practical No.7**  Construct a program to override methods run() and start() method of a runnable interface and create two threads of that class and run them accordingly. |  | 03/11/2023 | 06/11/2023 |  |
| **8** | **Practical No.8**  Create an application which accepts a list of numbers. The application should square these numbers and filter the numbers which are greater than 10000 and then find average of all these numbers. ( Java 8 APIs only) |  | 06/11/2023  10/11/2023 | 20/11/2023 |  |
| **9.** | **Practical No.9**  Develop an application for “Employee Information System” using JDBC with following requirements.   1. Create a database of employee details such as name, designation, department, date of joining, etc. 2. Create a provision to add, delete employee details. 3. Develop an information retrieval system for required information from the database. |  | 20/11/2023  24/11/2023 | 25/11/2023 |  |
| **10.** | Open Ended Experiment |  |  |  |  |