## KONGU ENGINEERING COLLEGE M. Nandhini IA CGRIOT PERUNDURAI ERODE - 638 052. INITLAI - JAYA PROGRAMMING LABORATORY Aim & Algorithm Program 30 Excecution & output 10 Viva TOTAL 100 Aim : To develop an application for library with methods issuerrand return () and creating the "over Due Exception" is book is returned after the due dote. LU painte una - amon mult Algorithm: Stephen out pripting ("Felter have come and moderid"); Step 1: Include the headerfiles is and util packages. Step 2: create a class doss called library Step 3: Within the class, create a methods void get details, void bookissue, return and the return with in the try block, or proper man to proper step 4: check the date of return if it exceeds the date throw on exception." I do not not not to Step 5: create a main class, call the methods using the library Objects. Step 6: create a user defined exception class and extends the class Exception Step 7: Within the class. Override the string tostring 17 method of exception dass. at + otobousor = otos 1 (0/00) 00/days 1/2 (00) 000

```
program:
      metricolly to took
      import java io * i
      import java util *:
       class Library // Library class
         int ac memberid
         Voidget details () {
         Scanner SI = new Scanner (System. in);
                                      9th 9ub 9dt 19tool
         String name = new String ();
          name = SI. next();
         System out println ("Enter your name and memberid");
           memberid = Sl. DextInt ();
          prordit ballos eerop eerob o adoaro is grafe!
     lines by blow shoots on one shoots and aid that is a good
     void bookissue () // bookissue method
         ( scanner si = new Scanner (system in);
    system out println i user get the book from the library);
          system out printen " user - you registered the following
      prieu ebortem att/100 destails/100 0 01000 3 00101
           name = 81. next ();
   Memberid = SI nextInt()
            Issuedate = SI. dateu: Dispersion
System out println (" you must return the book within
                             16 days");
              Date = Issuedate + 10;
          System out printen (Date)
```

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```
Develop an application for library book issue management with methods issue() and return(). Create and use the
     my { // bry block
     void bookreturn () // book return method
        int return date;
         System out printle ("enter returndate"); returndate = 51 nextInt ();
    if (returndate == date)
             System out Println (" Book Accepted"):
         999
             Ebyow
                          OVEYDUE Exception (e); // throw userdefined
                    U6m
                                                         exception
     catch ( Over Due Exception e) / catch block
                    VINCISIE DULL'S VI KIND OF THE SHOP INTO
       System out printle (e);
     class mclass // Mainclass
       Public Static void main ( String angs (3)
             library lib = new library ():
              Lib. getdetails ();
        lib. bookissue();
THE SUP
              lib. bookreturn ();
```

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class overdue Exception extends Exception Over Due Exception U 00191 1010 3 021010 30 10011 system. Out. printin ("you return book exceeding the dote (on) after the due dote"); Public String bostring () 11 Method override of exception close return (exception e); 19) m/300x3900x9v0 000 100x11 output: enter your name (0 milos) 29110 10 10 10 10 nandhini enter your memberid LOGIN SUCCESSFULLY 1. bookissue 2. bookreturn enter the date, return date 12.3.15 the octual returning date is 12.3.15 14.3.15 10 cholohon all The returing date is 14.3.15 you returned the box of you have to pay the fine. due dite exception cought. Result : thus the user defined exception bandling has been exert Successfully

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