**CSE-1004-PROBLEM SOLVING USING JAVA**

**TITLE-COLLEGE LIBRARY MANAGEMENT**

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**REGESTRATION NUMBER**

**19BCN7097**

**1-PROJECT OBJECTIVE**

**PROJECT IS ABOUT COLLEGE LIBRARY MANAGEMENT SYSTEM IN WHICH FACULTY AND STUDENTS BOTH CAN ISSUE A BOOK,RETURN A BOOK,RETURN A BOOK,SEARCH A BOOK AND CAN EXIT FROM THE SYSTEM.**

**2- CODING**

**import java.util.\*;**

**class main**

**{**

**public static void main(String agrs[])**

**{**

**Scanner sc=new Scanner(System.in);**

**int n=1;int num;int a;char s=' ';char x=' ';int give;int tecid;int c1;char p='s';**

**String str1[]={"1:MATHEMATICS","2:ELECTRONIC AND COMMUNICATION ENGINEERING","3:PHYSICS","4:STS","5:JAVA","6:CHEMISTRY","7:ENGLISH"};**

**int k[]={101,102,104,106,110,103,111};**

**System.out.println("");**

**System.out.println("");**

**System.out.println("COLLEGE LIBRARY MANAGEMENT");**

**System.out.println("");**

**System.out.println("");**

**System.out.println("");**

**System.out.println("###############################################");**

**System.out.println("\*\*\* WELCOME TO VIT AP LIBRARY \*\*\*");**

**System.out.println("###############################################");**

**System.out.println("");**

**System.out.println("");**

**System.out.println("PRESS 1 FOR FACULTY");**

**System.out.println("PRESS 2 FOR STUDENT");**

**System.out.println("");**

**give=sc.nextInt();**

**switch(give)**

**{**

**case 1:**

**do**

**{**

**System.out.println("");**

**System.out.println("WRITE THE SPECIAL CHARACTER TO ACCESS THE LIBRARY MANAGEMENT");**

**System.out.println("");**

**p=sc.next().charAt(0);**

**if(p=='s')**

**{**

**System.out.println("WRITE YOUR UNIQUE TEACHER ID");**

**tecid=sc.nextInt();**

**if(tecid>=1000 && tecid<=5000)**

**{**

**System.out.println("");**

**System.out.println("");**

**System.out.println("Verified");**

**System.out.println("");**

**System.out.println("");**

**System.out.println("AVAILABILITY OF BOOKS");**

**System.out.println("");**

**System.out.println("1:THOMAS CALCULAS - 101");**

**System.out.println("2:FUNDAMENTAL OF ECE - 102");**

**System.out.println("3:SK BATHACHARYA - 103");**

**System.out.println("4:OPTICS - 104");**

**System.out.println("5:OPTICS - 105");**

**System.out.println("6:STORY OF MY LIFE - 106");**

**System.out.println("7:LEARNING HOW TO FLY - 107");**

**System.out.println("8:11 HOURS - 108");**

**System.out.println("9:WASTED IN ENGINEERING - 109");**

**System.out.println("10:BASISIS OF JAVA - 110");**

**System.out.println("11:BASIC ENGLISH - 111");**

**System.out.println("");**

**System.out.println("");**

**System.out.println("");**

**System.out.println(" MENU FOR FACULTY ");**

**System.out.println("TYPE 1 FOR ISSUE OF A BOOK ");**

**System.out.println("TYPE 2 FOR RETURN OF A BOOK");**

**System.out.println("TYPE 3 FOR SEARCH FOR BOOKS");**

**System.out.println("TYPE 4 EXIT ");**

**System.out.println("");**

**System.out.println("ENTER OPTION");**

**num=sc.nextInt();**

**switch(num)**

**{**

**case 1 :if(n<=5)**

**{**

**n=n+1;**

**System.out.println("############################");**

**System.out.println("\*\*\*\*\*\*\*ISSUE OF BOOKS\*\*\*\*\*\*\*");**

**System.out.println("############################");**

**System.out.println("");**

**System.out.println("ENTER THE BOOK ID");**

**System.out.println("");**

**a=sc.nextInt();**

**if(a>=101 && a<=111)**

**{**

**System.out.println("");**

**System.out.println("BOOK AVAILABLE");**

**System.out.println("");**

**System.out.println("BOOK ISSUED");**

**System.out.println("");**

**}**

**else**

**{**

**System.out.println("BOOK ID DID NOT MATCH");**

**System.out.println("");**

**System.out.println("BOOK NOT AVAILABLE");**

**System.out.println("");**

**System.out.println("TRY AGAIN");**

**}**

**}**

**else**

**{**

**System.out.println(" MAXIMUM ISSUE LIMIT REACHED");**

**System.out.println("");**

**System.out.println(" ONLY FIVE BOOKS CAN BE ISSUED WITHIN 3 WEEKS");**

**break;**

**}**

**break;**

**case 2 :**

**System.out.println("");**

**System.out.println("#############################");**

**System.out.println("\*\*\*\*\*\*\*RETURN OF BOOKS\*\*\*\*\*\*\*");**

**System.out.println("#############################");**

**System.out.println("");**

**System.out.println("DROP THE BOOK");**

**System.out.println("");**

**System.out.println("ENTER THE BOOK ID");**

**System.out.println("");**

**a=sc.nextInt();**

**if(a>=101 && a<=111)**

**{**

**System.out.println("");**

**System.out.println("BOOK ID MATCHED");**

**System.out.println("");**

**System.out.println("BOOK RETURNED");**

**}**

**else**

**{**

**System.out.println("");**

**System.out.println("BOOK ID DID NOT MATCH");**

**System.out.println("");**

**System.out.println("TRY AGAIN");**

**}**

**break;**

**case 3 :**

**System.out.println("");**

**System.out.println("######################################");**

**System.out.println("\*\*\*\*\*\*\*SEARCH THE CODE OF BOOKS\*\*\*\*\*\*\*");**

**System.out.println("######################################");**

**System.out.println("");**

**for(a=0;a<7;a++)**

**System.out.println(str1[a]);**

**System.out.println("");**

**System.out.println("WRITE THE OPTION");**

**System.out.println("");**

**int z=sc.nextInt();**

**for(a=0;a<7;a++)**

**{**

**if(a==z)**

**System.out.println(k[a]);**

**}**

**break;**

**case 4 :**

**x='g';**

**break;**

**default :**

**{**

**System.out.println("");**

**System.out.println("Invalid Choice");**

**System.out.println("");**

**}**

**}**

**}**

**else**

**{**

**System.out.println("");**

**System.out.println("Not Verified");**

**System.out.println("");**

**System.out.println("WRITE THE CORRECT UNIQUE TEACHER ID");**

**}**

**System.out.println("");**

**System.out.println("Want to do again");**

**System.out.println("");**

**s=sc.next().charAt(0);**

**if(x=='g')**

**{**

**break;**

**}**

**}**

**else**

**{**

**System.out.println("");**

**System.out.println("WRONG CHARACTER");**

**System.out.println("");**

**System.out.println("CAN NOT ACCESS FACULTY PORTION");**

**}**

**}**

**while (s=='d');**

**break;**

**case 2:**

**do**

**{**

**System.out.println("WRITE YOUR REG. NO.");**

**int regno=sc.nextInt();**

**if(regno>=7000 && regno<=7999)**

**{**

**System.out.println("");**

**System.out.println("");**

**System.out.println("Verified");**

**System.out.println("");**

**System.out.println("");**

**System.out.println("AVAILABILITY OF BOOKS");**

**System.out.println("");**

**System.out.println("1:THOMAS CALCULAS - 101");**

**System.out.println("2:FUNDAMENTAL OF ECE - 102");**

**System.out.println("3:SK BATHACHARYA - 103");**

**System.out.println("4:OPTICS - 104");**

**System.out.println("5:OPTICS - 105");**

**System.out.println("6:STORY OF MY LIFE - 106");**

**System.out.println("7:LEARNING HOW TO FLY - 107");**

**System.out.println("8:11 HOURS - 108");**

**System.out.println("9:WASTED IN ENGINEERING - 109");**

**System.out.println("10:BASISIS OF JAVA - 110");**

**System.out.println("11:BASIC ENGLISH - 111");**

**System.out.println("");**

**System.out.println("");**

**System.out.println("");**

**System.out.println(" MENU FOR STUDENTS ");**

**System.out.println("TYPE 1 FOR ISSUE OF A BOOK ");**

**System.out.println("TYPE 2 FOR RETURN OF A BOOK");**

**System.out.println("TYPE 3 FOR SEARCH FOR BOOKS");**

**System.out.println("TYPE 4 EXIT ");**

**System.out.println("");**

**System.out.println("ENTER OPTION");**

**num=sc.nextInt();**

**switch(num)**

**{**

**case 1 :if(n<=3)**

**{**

**n=n+1;**

**System.out.println("############################");**

**System.out.println("\*\*\*\*\*\*\*ISSUE OF BOOKS\*\*\*\*\*\*\*");**

**System.out.println("############################");**

**System.out.println("");**

**System.out.println("ENTER THE BOOK ID");**

**System.out.println("");**

**a=sc.nextInt();**

**if(a>=101 && a<=111)**

**{**

**System.out.println("");**

**System.out.println("BOOK AVAILABLE");**

**System.out.println("");**

**System.out.println("BOOK ISSUED");**

**}**

**else**

**{**

**System.out.println("BOOK ID DID NOT MATCH");**

**System.out.println("BOOK NOT AVAILABLE");**

**System.out.println("TRY AGAIN");**

**}**

**}**

**else**

**{**

**System.out.println("");**

**System.out.println(" MAXIMUM ISSUE LIMIT REACHED");**

**System.out.println("");**

**System.out.println(" ONLY THREE BOOKS CAN BE ISSUED WITHIN 2 WEEKS");**

**System.out.println("");**

**break;**

**}**

**break;**

**case 2 :**

**System.out.println("#############################");**

**System.out.println("\*\*\*\*\*\*\*RETURN OF BOOKS\*\*\*\*\*\*\*");**

**System.out.println("#############################");**

**System.out.println("");**

**System.out.println("DROP THE BOOK");**

**System.out.println("");**

**System.out.println("ENTER THE BOOK ID");**

**System.out.println("");**

**a=sc.nextInt();**

**System.out.println("");**

**System.out.println("ENTER HOW MUCH DAYS BEFORE YOU ISSUED THE BOOK");**

**System.out.println("");**

**int days=sc.nextInt();**

**if(a>=101 && a<=111)**

**{**

**if(days==0)**

**{**

**c1=0;**

**}**

**else if((days>=1)&&(days<=7))**

**{**

**c1=100;**

**}**

**else if((days>=8)&&(days<=14))**

**{**

**c1=200;**

**}**

**else if((days>=15)&&(days<=21))**

**{**

**c1=300;**

**}**

**else if((days>=22)&&(days<=28))**

**{**

**c1=400;**

**}**

**else**

**{**

**c1=1000;**

**}**

**System.out.println("");**

**System.out.println("BOOK ID MATCHED");**

**System.out.println("");**

**System.out.println("BOOK RETURNED");**

**System.out.println("");**

**System.out.println("FINE OF YOUR BOOK = "+c1);**

**System.out.println("");**

**}**

**else**

**{**

**System.out.println("");**

**System.out.println("BOOK ID DID NOT MATCH");**

**System.out.println("");**

**System.out.println("TRY AGAIN");**

**}**

**break;**

**case 3 :**

**System.out.println("");**

**System.out.println("######################################");**

**System.out.println("\*\*\*\*\*\*\*SEARCH THE CODE OF BOOKS\*\*\*\*\*\*\*");**

**System.out.println("######################################");**

**System.out.println("");**

**for(a=0;a<7;a++)**

**System.out.println(str1[a]);**

**System.out.println("");**

**System.out.println("WRITE THE OPTION");**

**int z=sc.nextInt();**

**for(a=0;a<7;a++)**

**{**

**if(a==z)**

**System.out.println(k[a]);**

**}**

**break;**

**case 4 :**

**x='g';**

**break;**

**default :**

**{**

**System.out.println("Invalid Choice");**

**}**

**}**

**}**

**else**

**{**

**System.out.println("");**

**System.out.println("Not Verified");**

**System.out.println("");**

**System.out.println("WRITE THE CORRECT REG.NO.");**

**}**

**if(x=='g')**

**{**

**break;**

**}**

**System.out.println("Want to do again");**

**System.out.println("");**

**s=sc.next().charAt(0);**

**}**

**while (s=='d');**

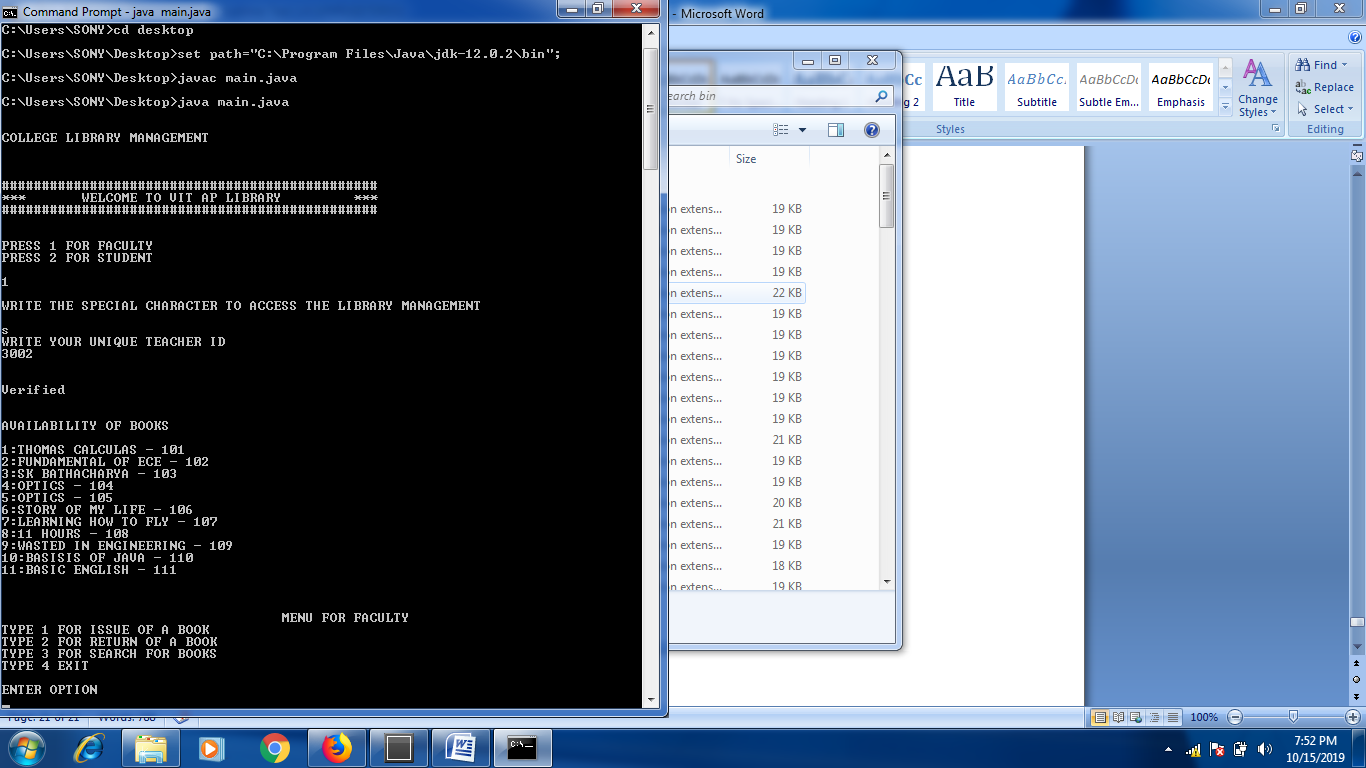
**break;**

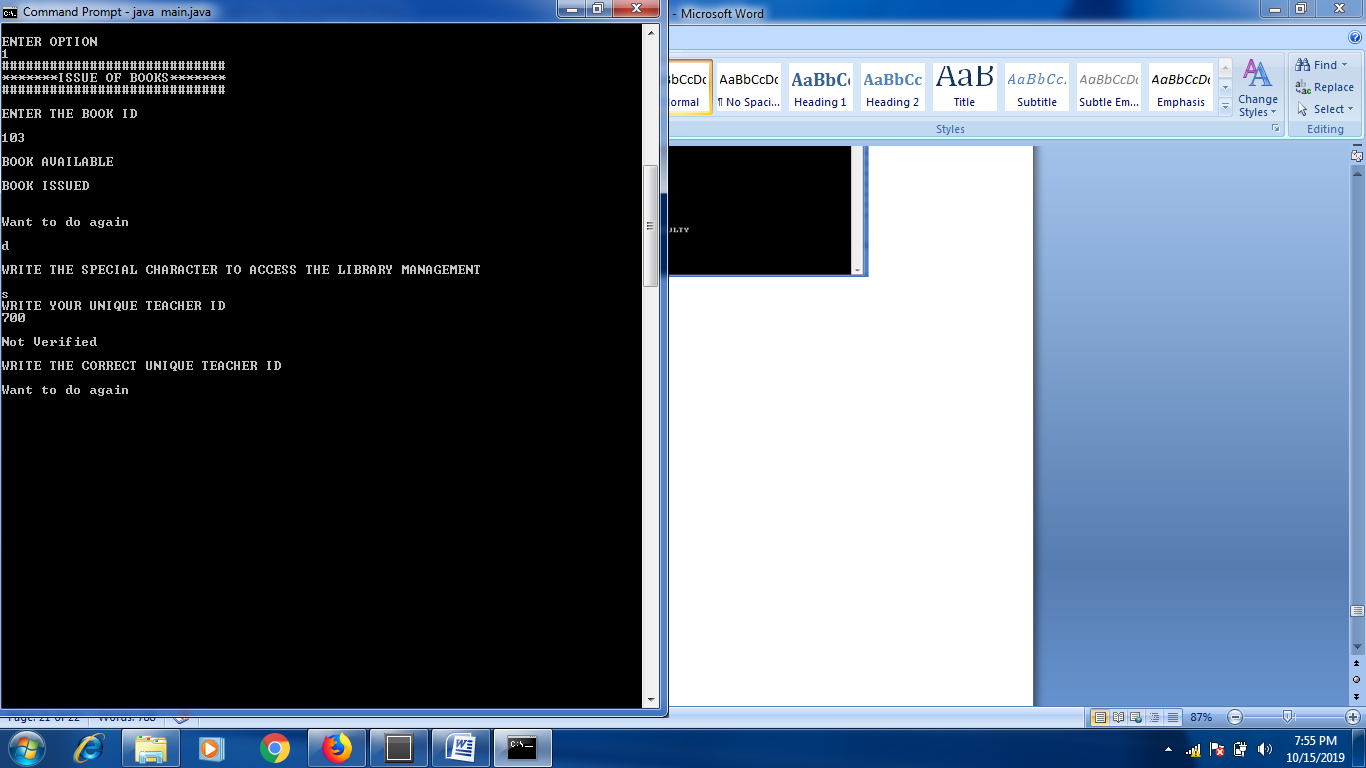
**}**

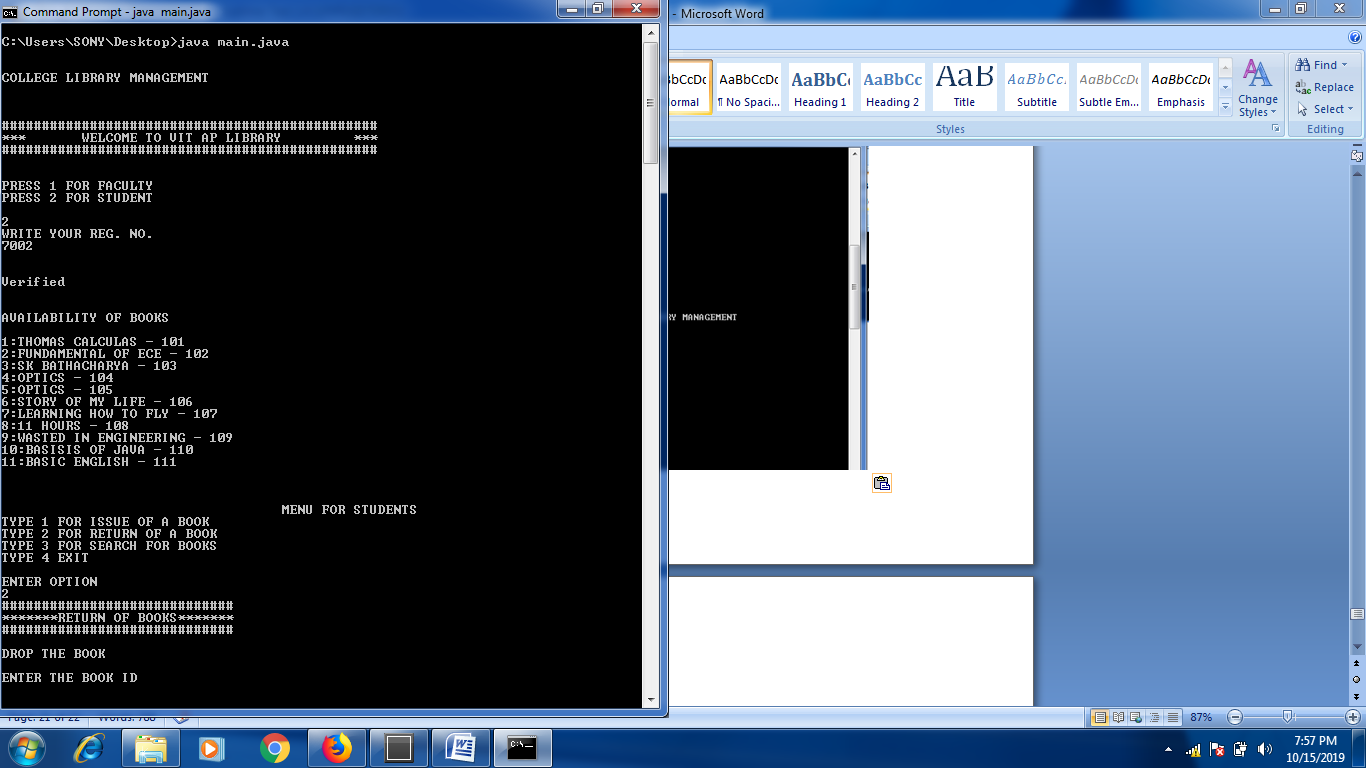
**}**

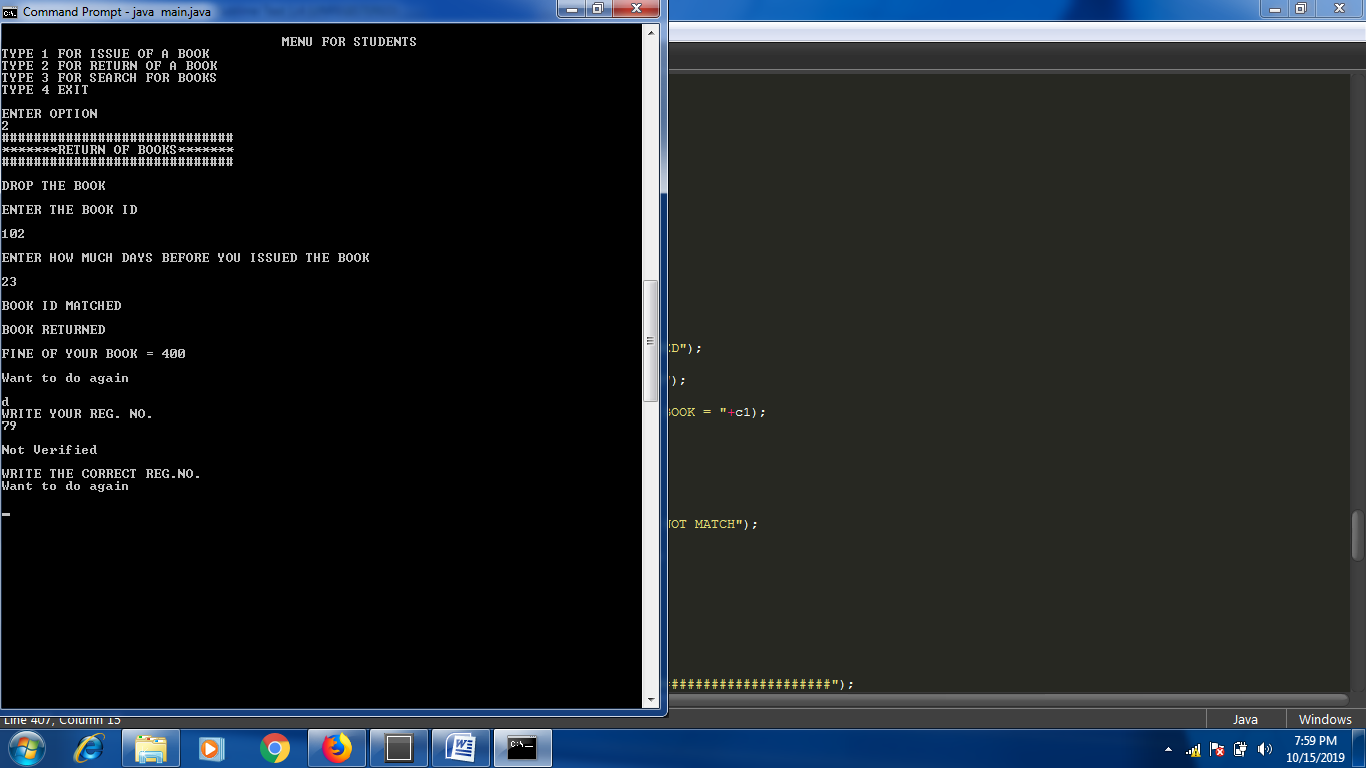
**}**

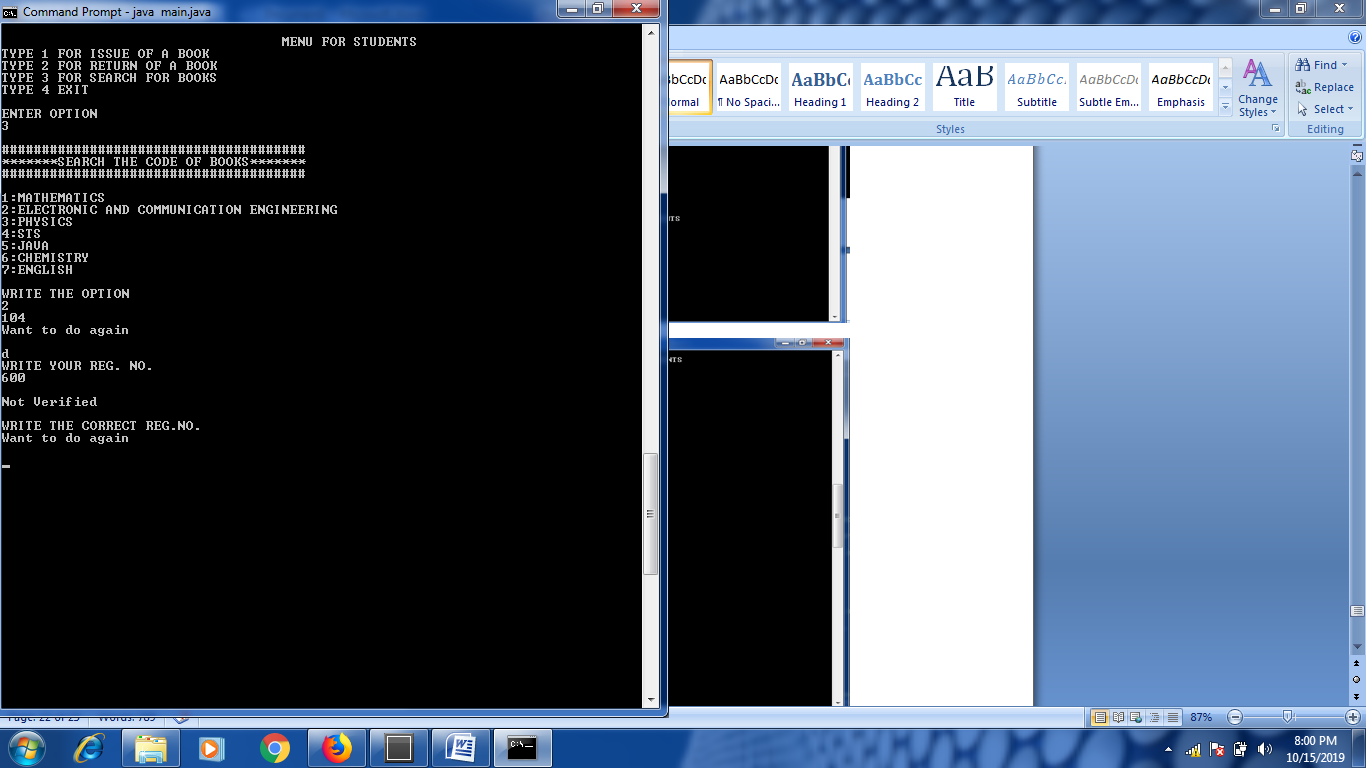
**4-OUTPUT**

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