

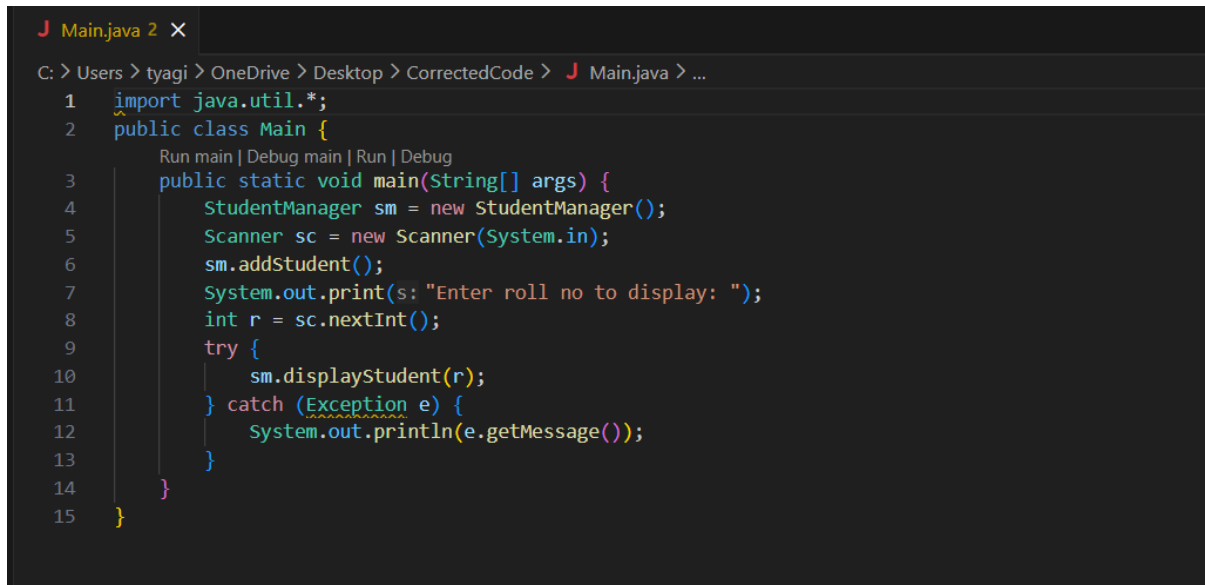
## LAB Assignment – 3

NAME – SHASHANK TYAGI

ROLL NO – 2401201033

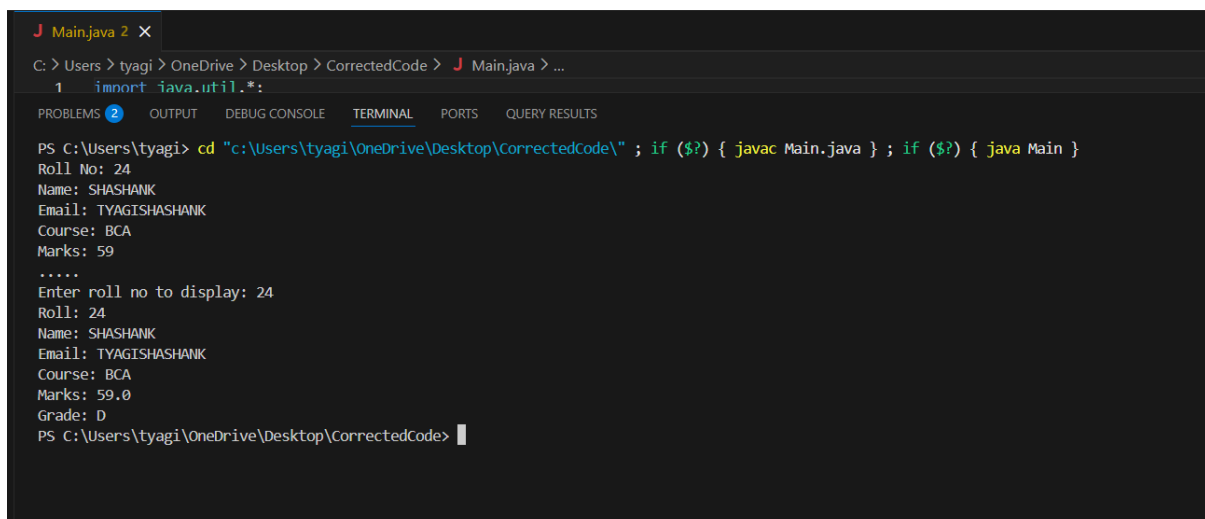
COURSE- BCA(AI&DS)

CODE –



```
J Main.java 2 X
C: > Users > tyagi > OneDrive > Desktop > CorrectedCode > J Main.java > ...
1  import java.util.*;
2  public class Main {
3      Run main | Debug main | Run | Debug
4      public static void main(String[] args) {
5          StudentManager sm = new StudentManager();
6          Scanner sc = new Scanner(System.in);
7          sm.addStudent();
8          System.out.print(s: "Enter roll no to display: ");
9          int r = sc.nextInt();
10         try {
11             sm.displayStudent(r);
12         } catch (Exception e) {
13             System.out.println(e.getMessage());
14         }
15     }
}
```

OUTPUT –



```
J Main.java 2 X
C: > Users > tyagi > OneDrive > Desktop > CorrectedCode > J Main.java > ...
1  import java.util.*;
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS QUERY RESULTS
PS C:\Users\tyagi> cd "c:\Users\tyagi\OneDrive\Desktop\CorrectedCode\" ; if ($?) { javac Main.java } ; if ($?) { java Main }
Roll No: 24
Name: SHASHANK
Email: TYAGISHASHANK
Course: BCA
Marks: 59
.....
Enter roll no to display: 24
Roll: 24
Name: SHASHANK
Email: TYAGISHASHANK
Course: BCA
Marks: 59.0
Grade: D
PS C:\Users\tyagi\OneDrive\Desktop\CorrectedCode>
```

## **EXPLANATION -**

### **1. StudentManager class**

- Stores student details such as roll number, name, email, course, marks, and grade.
- Has a method to add a student's information by taking input from the user.
- Has another method to display a specific student's details based on the roll number entered.

### **2. Main class working**

- Creates an object of StudentManager.
- Calls the method to add one student's record.
- Asks the user to enter a roll number they want to search.
- Sends this roll number to StudentManager to show the stored student details.
- Uses exception handling to avoid errors if wrong input is entered.

### **3. Program flow**

- User enters student information once.
- User enters a roll number to view that student's stored details.
- Program prints roll, name, email, course, marks, and grade.