

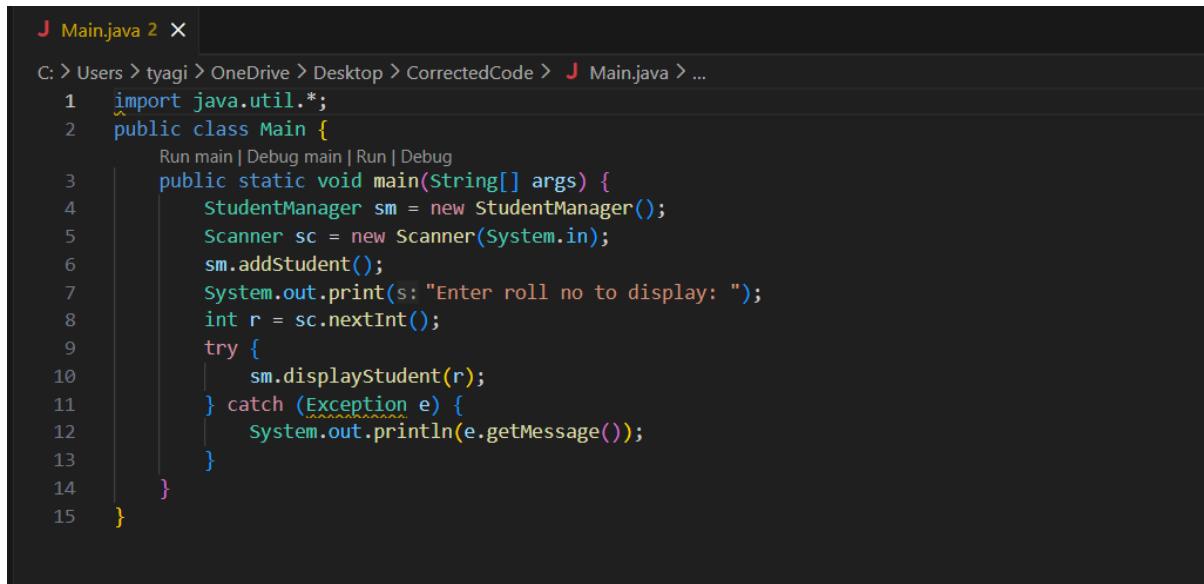
LAB Assignment – 3

NAME – SHASHANK TYAGI

ROLL NO – 2401201033

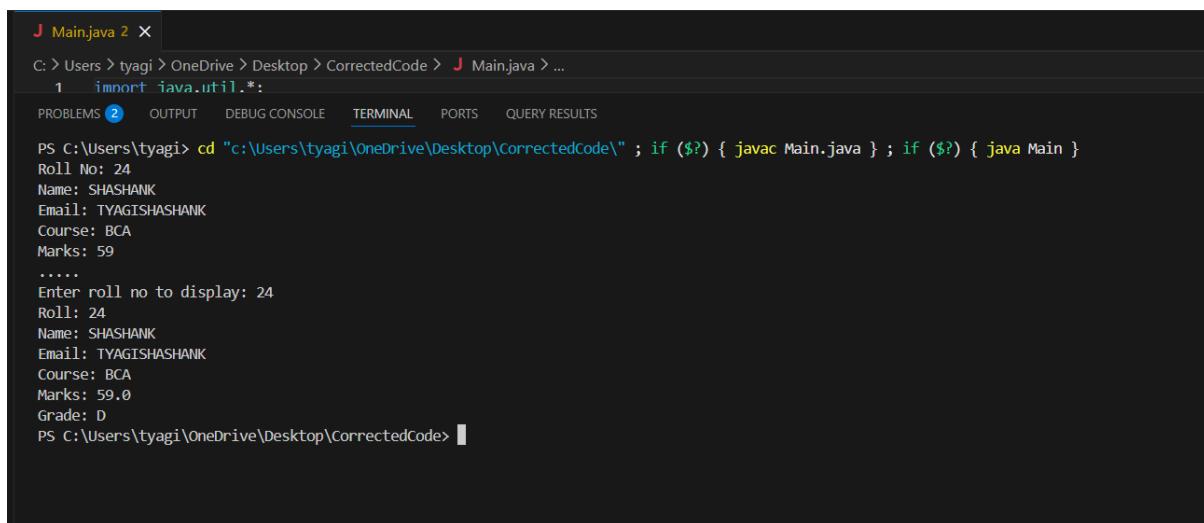
COURSE- BCA(AI&DS)

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("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.**