K.R. Mangalam University

School of Engineering & Technology

Lab Assignment 2

Java Programming

Submitted by: Submitted to:

Name: Rakesh G Dr. Manish Kumar

Roll No: 2401201064

Class: BCA (AI & DS)

GitHub Repository:

https://github.com/rakesh4407/Java Assignment Rakesh

CODE:

```
James | James | James | James | James | State | Decision | James | Decision | James | Decision | James | James
```

```
JAVA > Assingment > ± Inheritance.jeva > Java > ½ Inheritance > ۞ main(String[] args) |

public class Inheritance {

public static void main(String[] args) {

s.displayInfo();

}

// Using Overloaded method
System.out.println(x:"[Note] Overloaded display method:");

s.displayInfo(simple:true);

// Final Method
sl.showFinalMessage();

// Searching
Student searchResult = manager.searchStudent(rollNo:102);

if (searchResult != null) {

System.out.println(x:"\nround Student:");

searchResult.displayInfo();

}

// Updating
manager.updateStudent(rollNo:101, course:"B.Tech CSE", marks:88, grade:"A+");

// Deleting
manager.updateStudent(rollNo:102);

// Deleting
manager.deletestudent(rollNo:102);

// Final list
System.out.println(x:"\nrinal Student List:");
for (student s: manager.viewAllStudents()) {

s.displayInfo();
}

// Garbage Collection to call finalize()

s1 = null; The assigned value is never used

s2 = null; The assigned value is never used

system.gc(); // Suggest JVM to run garbage collector

}

// System.gc(); // Suggest JVM to run garbage collector

}

// System.gc(); // Suggest JVM to run garbage collector

}

// Suggest JVM to run garbage collector

// Suggest JVM to run garbage collector

// Suggest JVM to run garbage collector
```

OUTPUT:

```
Student added successfully.
Student added successfully.
Student Info:
Roll No: 101
Name: Rakesh
Email: Rakesh@mail.com
Course: BCA
Student Info:
Roll No: 102
Name: Riya
Email: riya@mail.com
Course: M.Tech
Research Area: AI
[Note] Overloaded display method:
Student Info:
Roll No: 101
Name: Rakesh
Email: Rakesh@mail.com
Course: BCA
This is a final method in a final class.
Found Student:
Student Info:
Roll No: 102
Name: Riya
Email: riya@mail.com
Course: M.Tech
Research Area: AI
Student updated successfully.
Student removed successfully.
Final Student List:
Student Info:
Roll No: 101
Name: Rakesh
Email: Rakesh@mail.com
Course: B.Tech CSE
d:\RAKESH\VSC>
```