FINAL PRACTICAL WORKSHEET

STUDENT'S NAME – NEHA SHARMA DATE- 4/12/21

STUDENT'S UID – 20BCS4576 SUBJECT CODE- 20CSP-234

CLASS AND GROUP – 20IBIT-1_A BRANCH- CSE-IOT

SEMESTER – 3 SUBJECT NAME- JAVA LAB

<u>1. AIM:</u>

To a program to handle Array IndexOutof Bound Exception in JAVA.

2. TASK TO BE DONE:

Write a program in Java to display name and roll number of students. Initialize respective array variables for 2 students. Handle Array Index Out Of Bounds Exception, so that any such problem does not cause illegal termination of program.

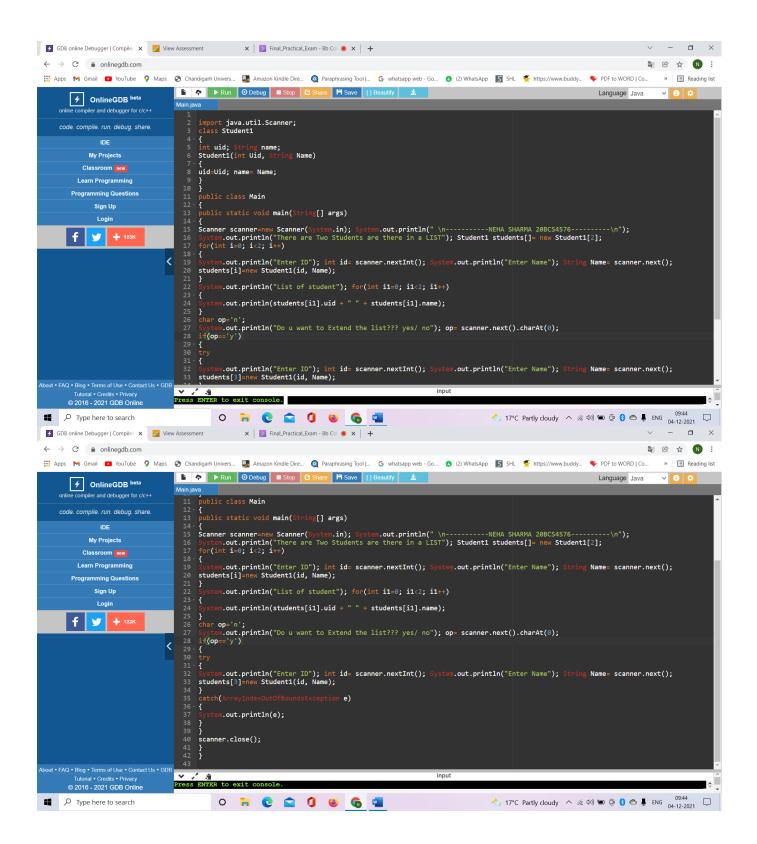
3. Apparatus:

- 1. System with any Operating System.
- 2. Online GDB

3. PROGRAM CODE:

```
import java.util.Scanner;
class Student1
{
  int uid; String name;
  Student1(int Uid, String Name)
{
  uid=Uid; name= Name;
  }
  }
  public class Main
```

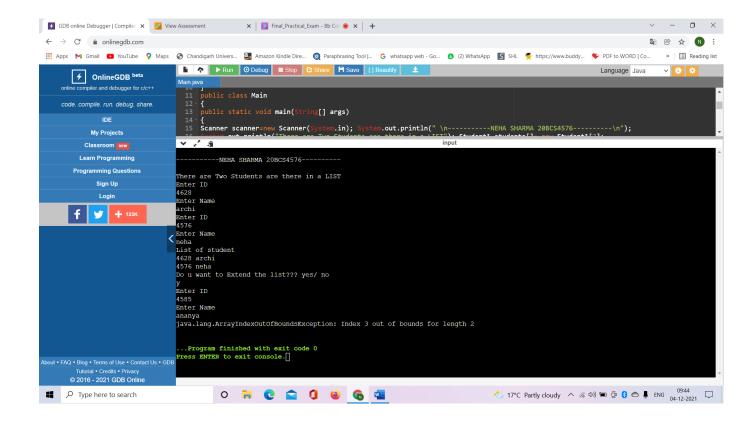
```
public static void main(String[] args)
Scanner scanner=new Scanner(System.in); System.out.println("\n-----NEHA SHARMA
20BCS4576-----\n");
System.out.println("There are Two Students are there in a LIST"); Student1 students[]= new
Student1[2];
for(int i=0; i<2; i++)
System.out.println("Enter ID"); int id= scanner.nextInt(); System.out.println("Enter Name");
String Name= scanner.next();
students[i]=new Student1(id, Name);
System.out.println("List of student"); for(int i1=0; i1<2; i1++)
System.out.println(students[i1].uid + " " + students[i1].name);
char op='n';
System.out.println("Do u want to Extend the list??? yes/ no"); op= scanner.next().charAt(0);
if(op=='y')
try
System.out.println("Enter ID"); int id= scanner.nextInt(); System.out.println("Enter Name");
String Name= scanner.next();
students[3]=new Student1(id, Name);
catch(ArrayIndexOutOfBoundsException e)
System.out.println(e);
scanner.close();
```



4. ERRORS ENCOUNTERED DURING PROGRAM'S EXECUTION: (Kindly jot down the compile time errors encountered):

NO ERROR EXECUTED

5. OUTPUT:



6. **LEARNING OUTCOME:**

- Identify situations where computational methods would be useful.
- Approach the programming tasks using techniques learnt and write pseudocode.
- Choose the right data representation formats based on the requirements of the problem.
- Use the comparisons and limitations of the various programming constructs and choose the right one for the task.