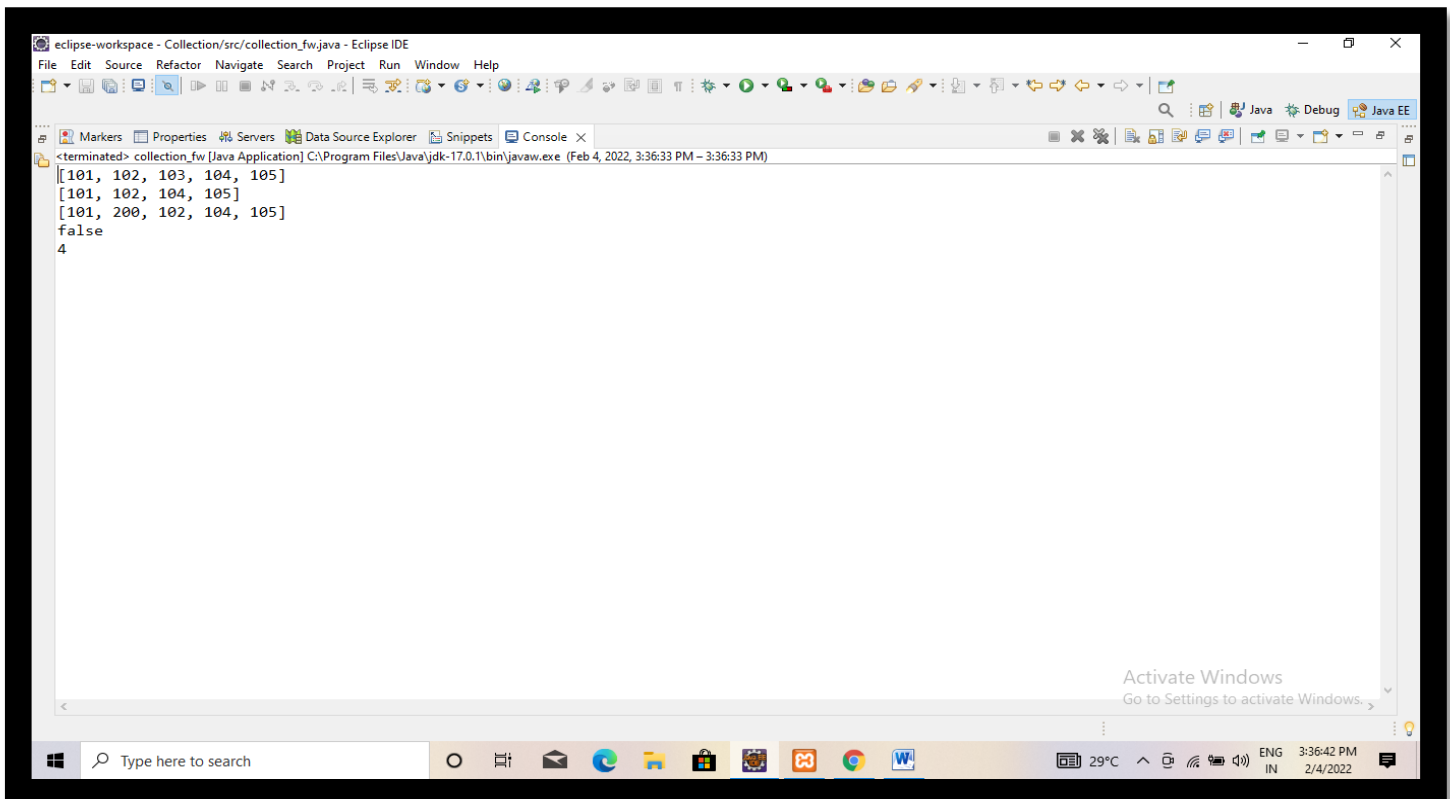**Name : Rohan Kunkekar**

1.) Collection List:

Code:

```java
import java.util.ArrayList;
import java.util.List;

public class collection_fw {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        List<Integer>list=new ArrayList<Integer>();
        list.add(101);
        list.add(102);
        list.add(103);
        list.add(104);
        list.add(105);
        System.out.println(list);
        list.remove(2);
        System.out.println(list);
        list.add(1,200);
        System.out.println(list);
        System.out.println(list.contains(103));
        System.out.println(list.indexOf(105));
    }
}
```

2. Collection Add List PGM

Source Code:

```java
public class Employee {
      private int empid;
      private String empName;
      private float empSal;
      public int getEmpid()
      {
            return empid;
      }
      public void setEmpid(int empid) {
            this.empid=empid;
      }
      public String  getEmpName() {
            return empName;
      }
      public void setEmpName( String empName) {
            this.empName = empName;
      }
      public float getEmpSal() {
            return empSal;
      }
      public Employee(int empid,String empName,float empSal) {
            super();
            this.empid=empid;
            this.empName=empName;
            this.empSal=empSal;

      }
      public String toString()
{
            return
"EmployeeArrayList[empid="+empid+",empName="+empName+",
empsal="+empSal+"]";
}
      }
```

Second Class to invoke methods

```java
import java.util.ArrayList;
import java.util.Collections;
import java.util.Iterator;
```

```java
import java.util.List;

public class EmployeeListDemo {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        List<Employee>employee=new ArrayList<Employee>();
        Employee Emp=new Employee(101,"Aaj",2020.80f);
        employee.add(Emp);
        employee.add(new Employee(103,"Rohan",20256.f));
        employee.add(new Employee(105,"Renu",20258.f));
        employee.add(new Employee(104,"Neha",20456.f));
        employee.add(new Employee(102,"Zombie",20956.f));
    System.out.println(employee);
    Iterator it=employee.listIterator();
    while(it.hasNext()) {
        Employee emp=(Employee)it.next();

    System.out.println(emp.getEmpid()+"\t"+emp.getEmpName()+"\t"+emp.
getEmpSal());
        }
        ArrayList<String>al=new ArrayList<String>();
        for(int i=0;i<employee.size();i++) {
            Employee emp= employee.get(i);
            String name=emp.getEmpName();
            al.add(name);
            }
        Collections.sort(al);
        System.out.println(al);
        Collections.reverse(al);
        System.out.println(al);
    }
}
```

3. Collection Queue

Source Code:

```java
package EmployeeListDemo;

import java.util.ArrayDeque;

public class QueueDemo {

    public static void main(String[] args) {
        ArrayDeque<String>arrayDeque=new ArrayDeque<String>();
        arrayDeque.push("Rohan");
        arrayDeque.push("Raj");
        arrayDeque.push("Ravi");
        arrayDeque.push("Kunal");
        System.out.println(arrayDeque);
        arrayDeque.pop();
        System.out.println(arrayDeque);
        arrayDeque.pop();
        System.out.println(arrayDeque);


    }

}
```