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Program Name: - Array List

```
package com.arraylist;
import java.util.*;
import java.util.Map.Entry;

public class ArrayListToArray {

	public static void main(String[] args) {
		NavigableMap<Integer, String> map=new NavigableMap<Integer, String>() {

			@Override
			public int size() {
				// TODO Auto-generated method stub
				return 0;
			}

			@Override
			public String remove(Object key) {
				// TODO Auto-generated method stub
				return null;
			}

			@Override
			public void putAll(Map<? extends Integer, ? extends String> m) {
				// TODO Auto-generated method stub

			}

			@Override
			public String put(Integer key, String value) {
				// TODO Auto-generated method stub
				return null;
			}
```

```
@Override
public boolean isEmpty() {
	// TODO Auto-generated method stub
	return false;
}

@Override
public String get(Object key) {
	// TODO Auto-generated method stub
	return null;
}

@Override
public boolean containsValue(Object value) {
	// TODO Auto-generated method stub
	return false;
}

@Override
public boolean containsKey(Object key) {
	// TODO Auto-generated method stub
	return false;
}

@Override
public void clear() {
	// TODO Auto-generated method stub

}

@Override
public Collection<String> values() {
	// TODO Auto-generated method stub
```

```
		return null;
	}

	@Override
	public Integer lastKey() {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public Set<Integer> keySet() {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public Integer firstKey() {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public Set<Entry<Integer, String>> entrySet() {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public Comparator<? super Integer> comparator() {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
```

```
	public NavigableMap<Integer, String> tailMap(Integer fromKey, boolean inclusive) {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public SortedMap<Integer, String> tailMap(Integer fromKey) {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public NavigableMap<Integer, String> subMap(Integer fromKey, boolean fromInclusive,
Integer toKey,
				boolean toInclusive) {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public SortedMap<Integer, String> subMap(Integer fromKey, Integer toKey) {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public Entry<Integer, String> pollLastEntry() {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public Entry<Integer, String> pollFirstEntry() {
		// TODO Auto-generated method stub
```

```
		return null;
	}

	@Override
	public NavigableSet<Integer> navigableKeySet() {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public Integer lowerKey(Integer key) {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public Entry<Integer, String> lowerEntry(Integer key) {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public Entry<Integer, String> lastEntry() {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
	public Integer higherKey(Integer key) {
		// TODO Auto-generated method stub
		return null;
	}

	@Override
```

```
public Entry<Integer, String> higherEntry(Integer key) {
	// TODO Auto-generated method stub
	return null;
}

@Override
public NavigableMap<Integer, String> headMap(Integer toKey, boolean inclusive) {
	// TODO Auto-generated method stub
	return null;
}

@Override
public SortedMap<Integer, String> headMap(Integer toKey) {
	// TODO Auto-generated method stub
	return null;
}

@Override
public Integer floorKey(Integer key) {
	// TODO Auto-generated method stub
	return null;
}

@Override
public Entry<Integer, String> floorEntry(Integer key) {
	// TODO Auto-generated method stub
	return null;
}

@Override
public Entry<Integer, String> firstEntry() {
	// TODO Auto-generated method stub
	return null;
}
```

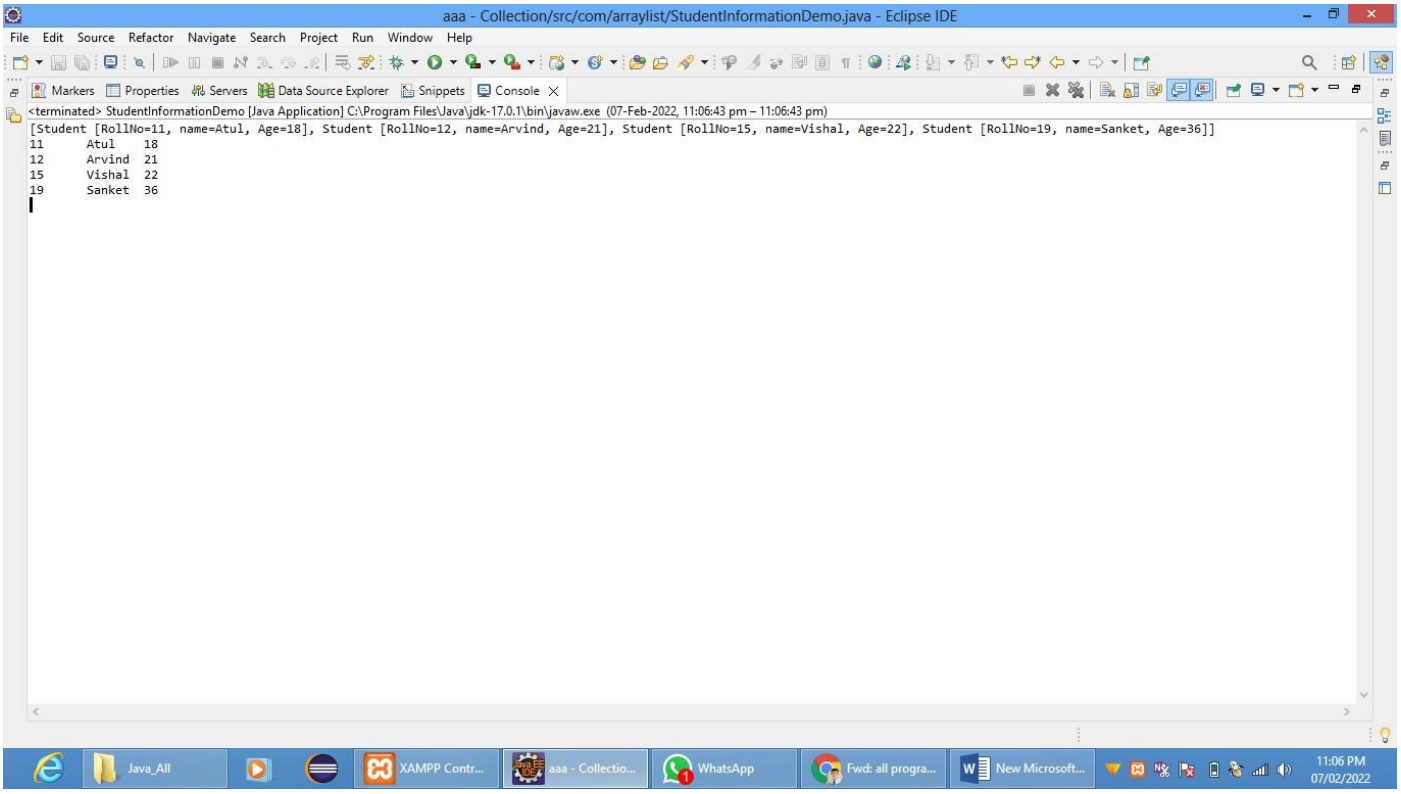
```
		@Override
		public NavigableMap<Integer, String> descendingMap() {
			// TODO Auto-generated method stub
			return null;
		}

		@Override
		public NavigableSet<Integer> descendingKeySet() {
			// TODO Auto-generated method stub
			return null;
		}

		@Override
		public Integer ceilingKey(Integer key) {
			// TODO Auto-generated method stub
			return null;
		}

		@Override
		public Entry<Integer, String> ceilingEntry(Integer key) {
			// TODO Auto-generated method stub
			return null;
		}
	};
	}
}
```

```
package com.arraylist;

public class Student {
	private int RollNo;
	private String name;
	private int Age;
	public Student(int rollNo, String name, int age) {
		super();
		RollNo = rollNo;
		this.name = name;
		Age = age;
	}
	public int getRollNo() {
```

```
		return RollNo;
	}
	public void setRollNo(int rollNo) {
		RollNo = rollNo;
	}
	public String getName() {
		return name;
	}
	public void setName(String name) {
		this.name = name;
	}
	public int getAge() {
		return Age;
	}
	public void setAge(int age) {
		Age = age;
	}
	@Override
	public String toString() {
		return "Student [RollNo=" + RollNo + ", name=" + name + ", Age=" + Age + "]";
	}

}
```

```
package com.arraylist;

import java.util.*;

public class StudentInformationDemo {

	public static void main(String[] args) {
		List<Student> student=new ArrayList<Student>();
		student.add(new Student(11, "Atul", 18));
		student.add(new Student(12, "Arvind", 21));
		student.add(new Student(15, "Vishal",22));
		student.add(new Student(19, "Sanket", 36));

		System.out.println(student);

		Iterator it=student.listIterator();
		while(it.hasNext()) {
			Student ob= (Student)it.next();
			System.out.println(ob.getRollNo()+"\t"+ob.getName()+"\t"+ob.getAge());
		}

	}

}
```

Output


aaa - Collection/src/com/arraylist/StudentInformationDemo.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Markers Properties Servers Data Source Explorer Snippets Console
<terminated> StudentInformationDemo [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (07-Feb-2022, 11:06:43 pm – 11:06:43 pm)
[Student [RollNo=11, name=Atul, Age=18], Student [RollNo=12, name=Arvind, Age=21], Student [RollNo=15, name=Vishal, Age=22], Student [RollNo=19, name=Sanket, Age=36]]
11 Atul 18
12 Arvind 21
15 Vishal 22
19 Sanket 36
Java_All
XAMPP Contr...
aaa - Collectio...
WhatsApp
Fwd: all progra...
New Microsoft...
11:06 PM
07/02/2022