

```
import java.util.ArrayList;

import java.util.Collections;

import java.util.Comparator;

import java.util.HashMap;

import java.util.HashSet;

import java.util.Iterator;


public class studentmanagementsystem {

    public studentmanagementsystem() {

    }


    public static void main(String[] var0) {

        ArrayList var1 = new ArrayList();

        var1.add(new Student(1, "Amit", 85));

        var1.add(new Student(2, "Neha", 90));

        var1.add(new Student(3, "Ravi", 78));

        var1.add(new Student(2, "Neha", 90));

        HashSet var2 = new HashSet(var1);

        var1 = new ArrayList(var2);

        HashMap var3 = new HashMap();

        Iterator var4 = var1.iterator();


        Student var5;

        while(var4.hasNext()) {

            var5 = (Student)var4.next();

            var3.put(var5.id, var5);

        }


        Collections.sort(var1, new Comparator<Student>() {

            public int compare(Student var1, Student var2) {

                return var2.marks - var1.marks;
```

```

    }
});
System.out.println("ID\tName\tMarks");
System.out.println("-----");
var4 = var1.iterator();

while(var4.hasNext()) {
    var5 = (Student)var4.next();
    System.out.println(var5.id + "\t" + var5.name + "\t" + var5.marks);
}

System.out.println("\nSearching student with ID 2:");
Student var6 = (Student)var3.get(2);
System.out.println(var6.name + " - " + var6.marks);
}
}

```

```
C:\Users\madha\OneDrive\Desktop\sanika>javac studentmanagementsystem.java
[0.022s][warning][cds] A jar file is not the one used while building the shared archive file: C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules
[0.022s][warning][cds] A jar file is not the one used while building the shared archive file: C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules
[0.022s][warning][cds] C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules timestamp has changed.
```

```
C:\Users\madha\OneDrive\Desktop\sanika>java studentmanagementsystem
[0.023s][warning][cds] A jar file is not the one used while building the shared archive file: C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules
[0.024s][warning][cds] A jar file is not the one used while building the shared archive file: C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules
[0.024s][warning][cds] C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules timestamp has changed.
```

ID	Name	Marks
2	Neha	90
1	Amit	85
3	Ravi	78

```
Searching student with ID 2:
Neha - 90
```

```
C:\Users\madha\OneDrive\Desktop\sanika>
```

