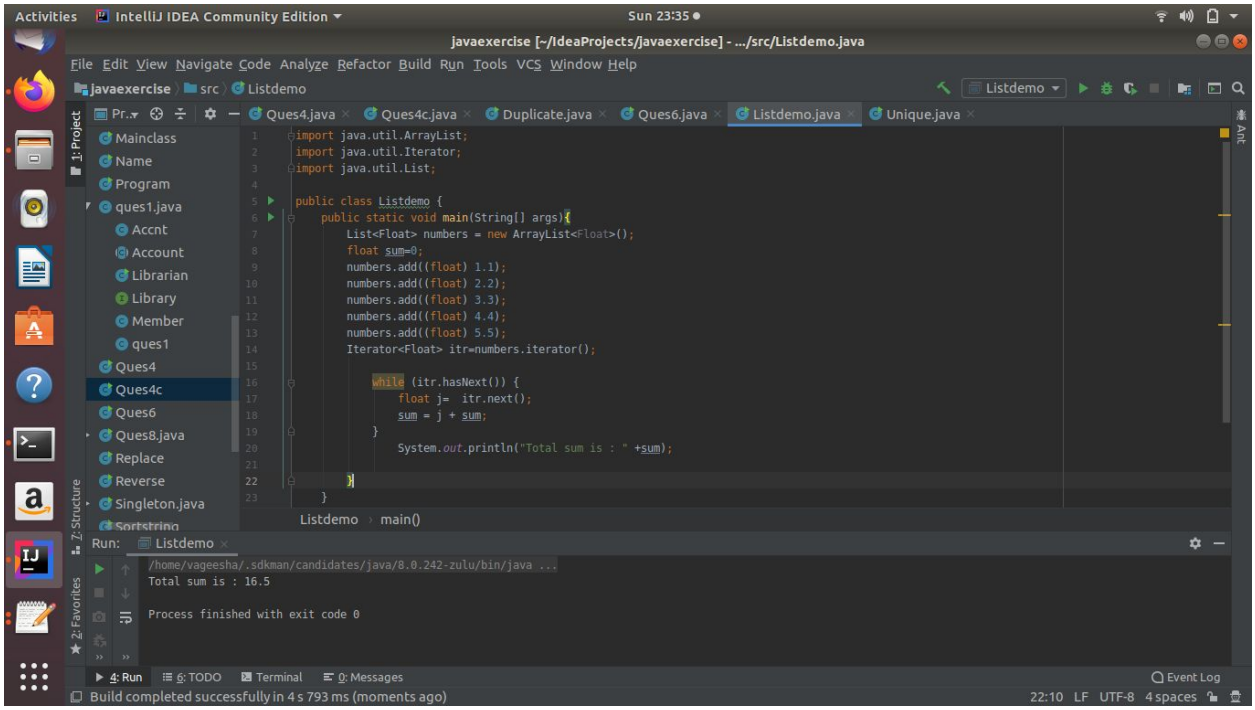
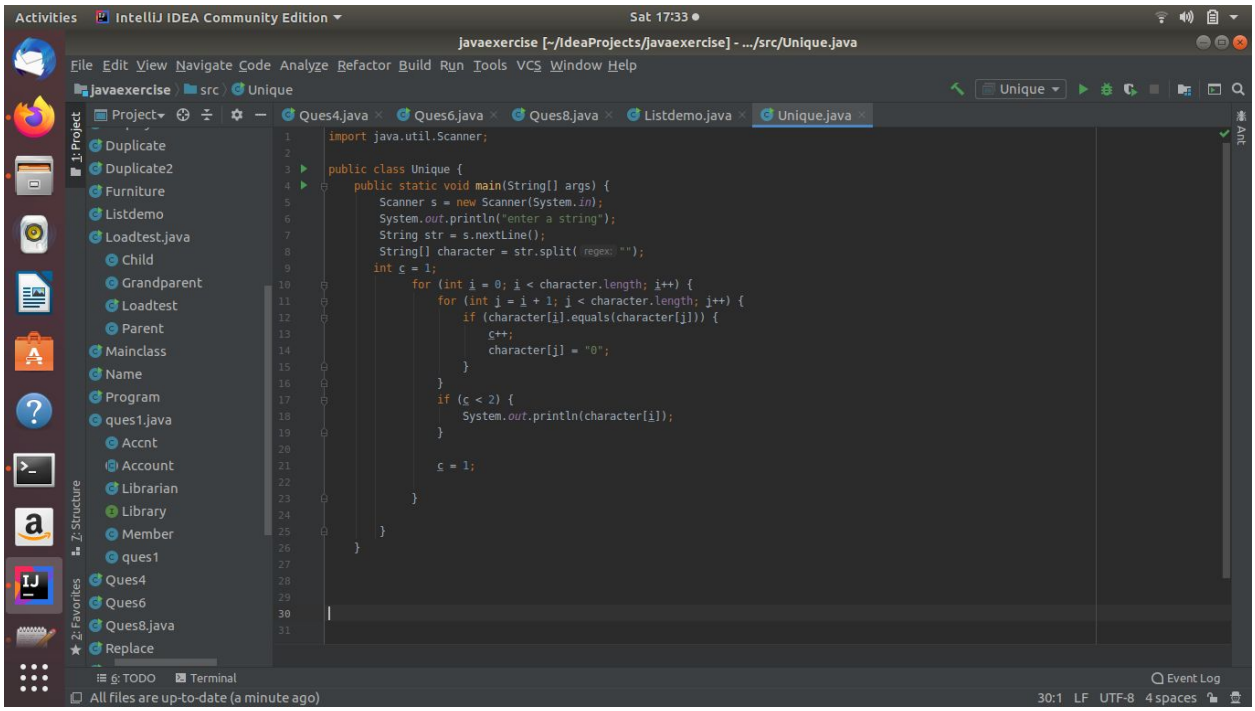
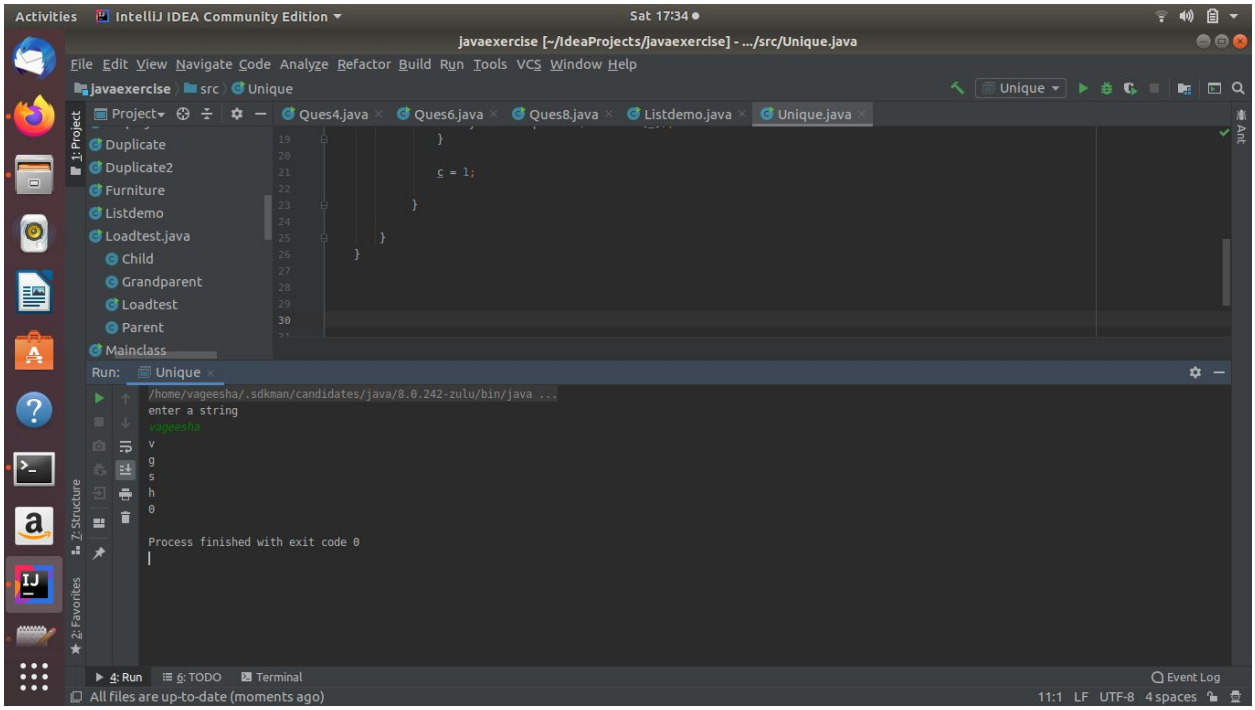
1. **Write Java code to define List . Insert 5 floating point numbers in List, and using an iterator, find the sum of the numbers in List.**

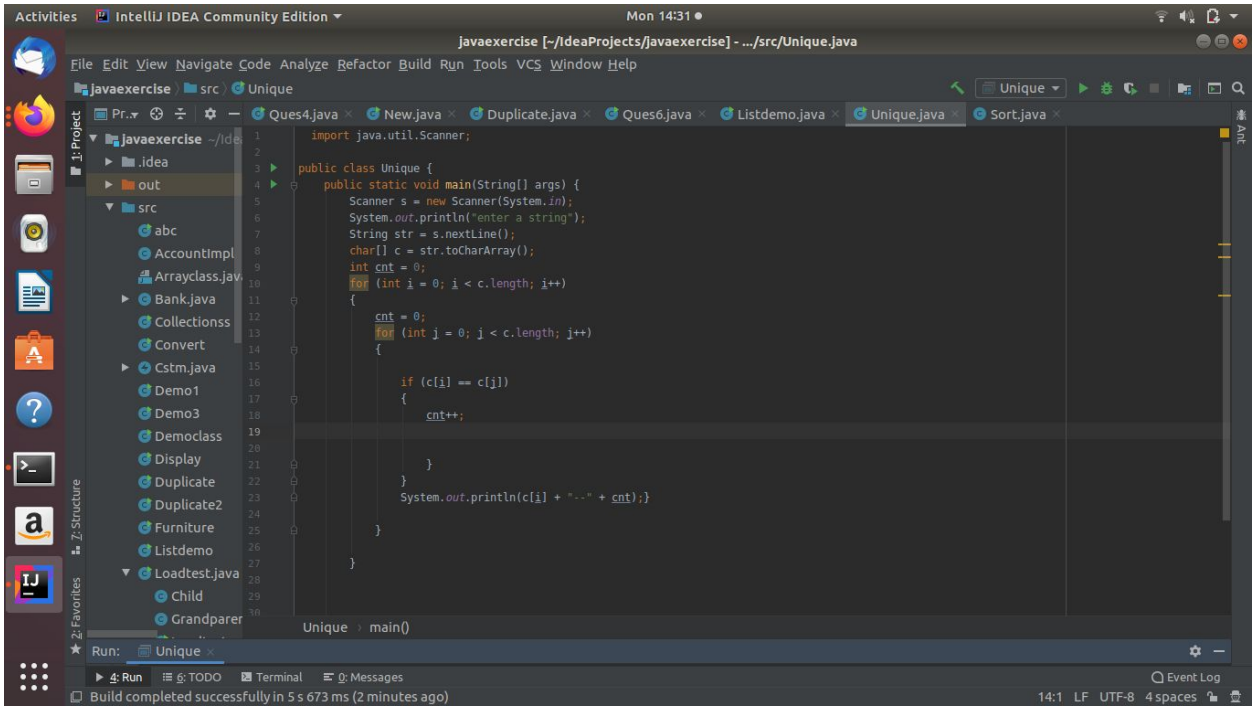


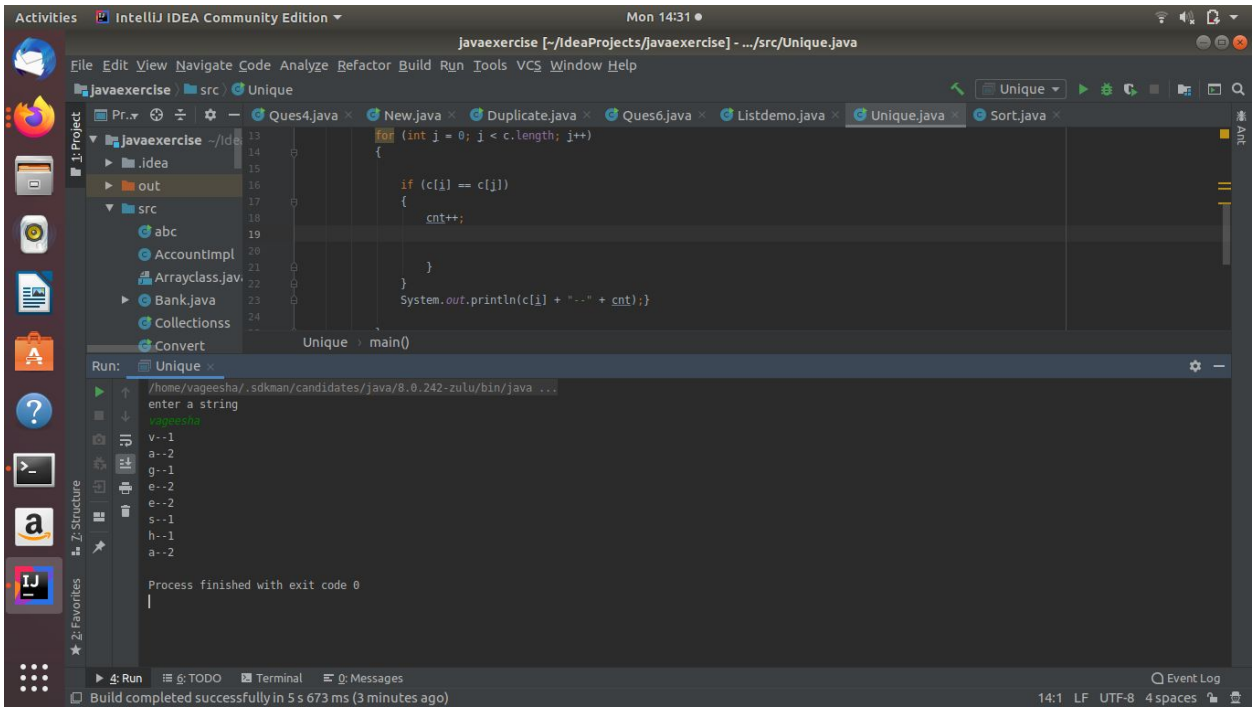
2. **Write a method that takes a string and returns the number of unique characters in the string.**



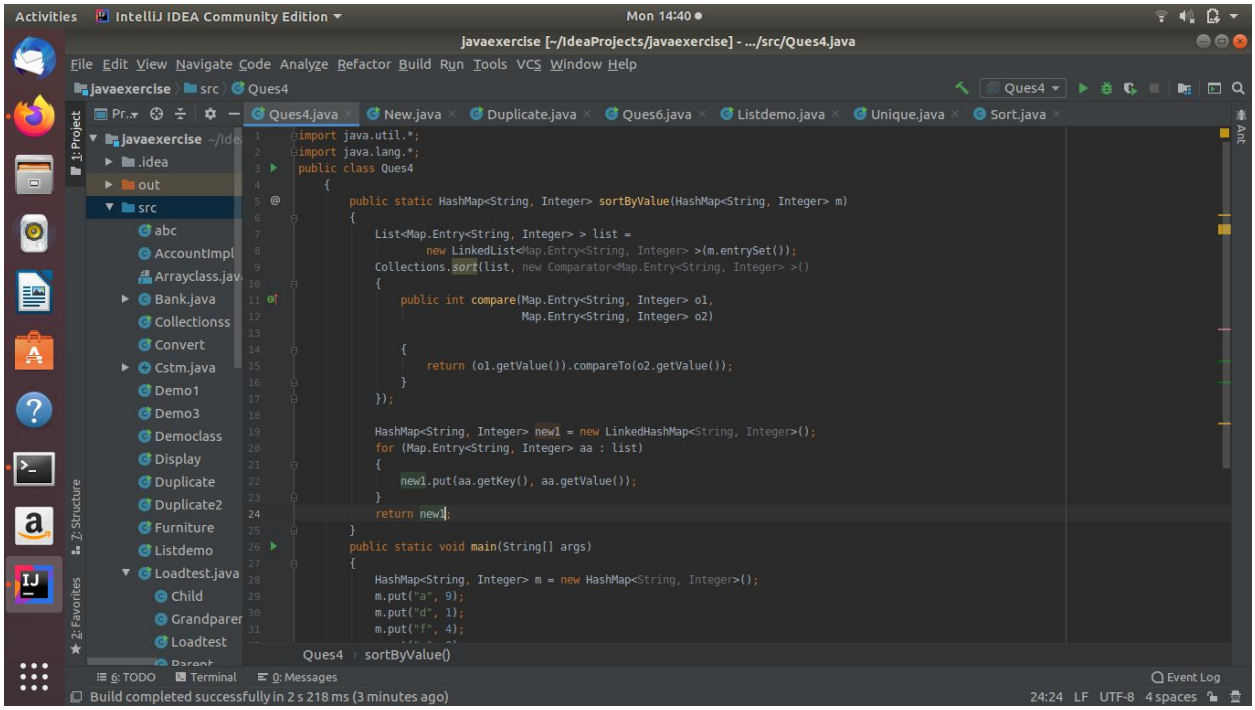


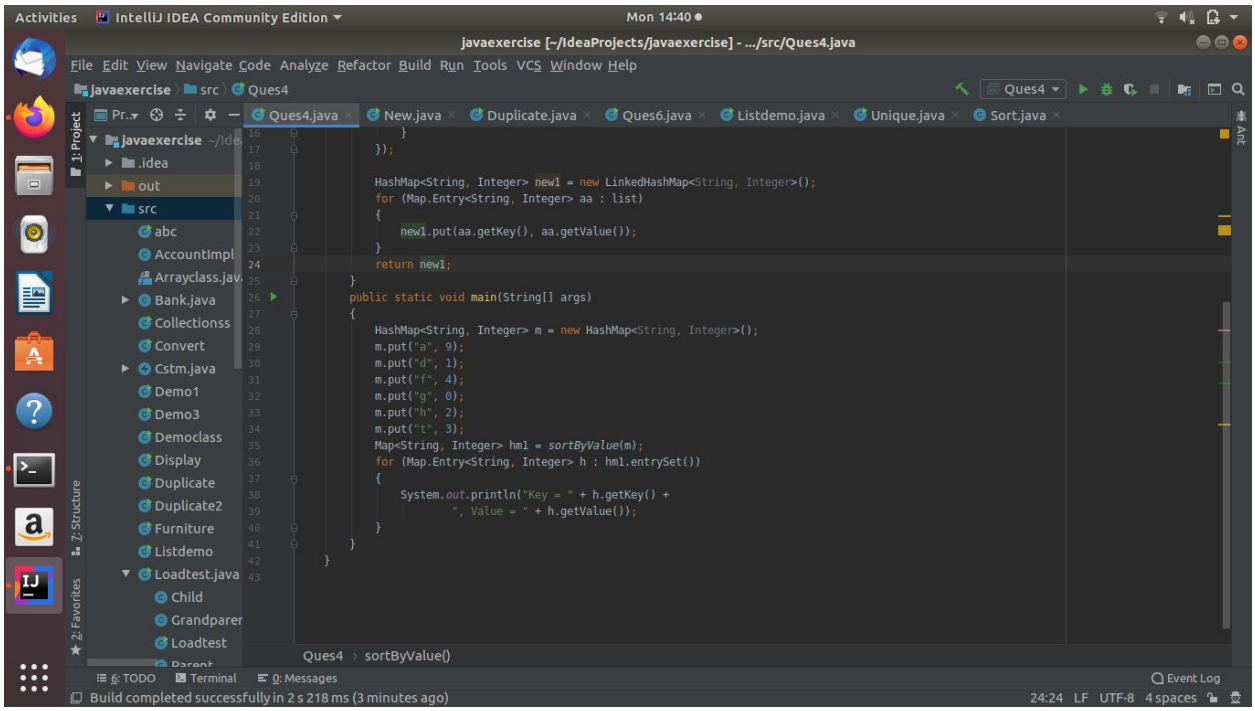
3. **Write a method that takes a string and print the number of occurrence of each characters in the string.**





4. Write a program to sort HashMap by value.


Activities
IntelliJ IDEA Community Edition
Mon 14:40
javaexercise [~/IdeaProjects/javaexercise] - .../src/Ques4.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
javaexercise src Ques4
Ques4.java New.java Duplicate.java Ques6.java Listdemo.java Unique.java Sort.java
1: Project
Ant
2: Favorites
7: Structure
6: TODO Terminal 0: Messages
Event Log
Build completed successfully in 2 s 218 ms (3 minutes ago)
24:24 LF UTF-8 4 spaces


Activities
IntelliJ IDEA Community Edition
Mon 14:40
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File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
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Ques4.java New.java Duplicate.java Ques6.java Listdemo.java Unique.java Sort.java
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Ant
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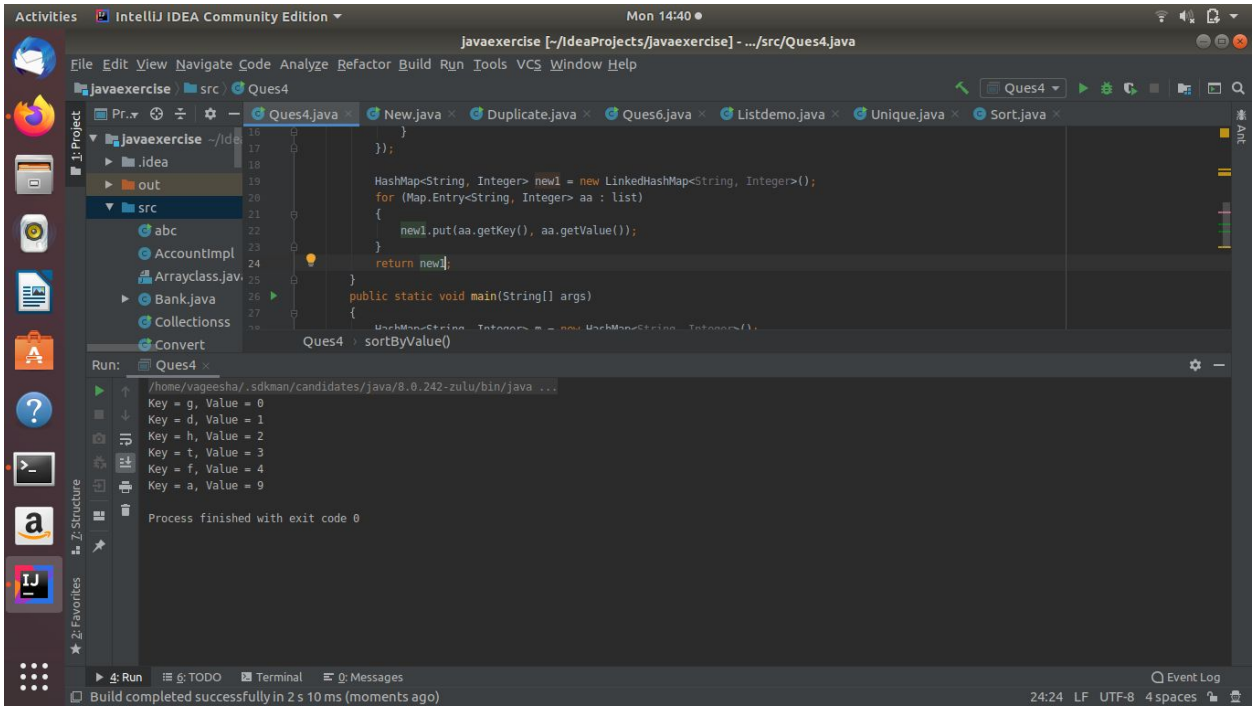
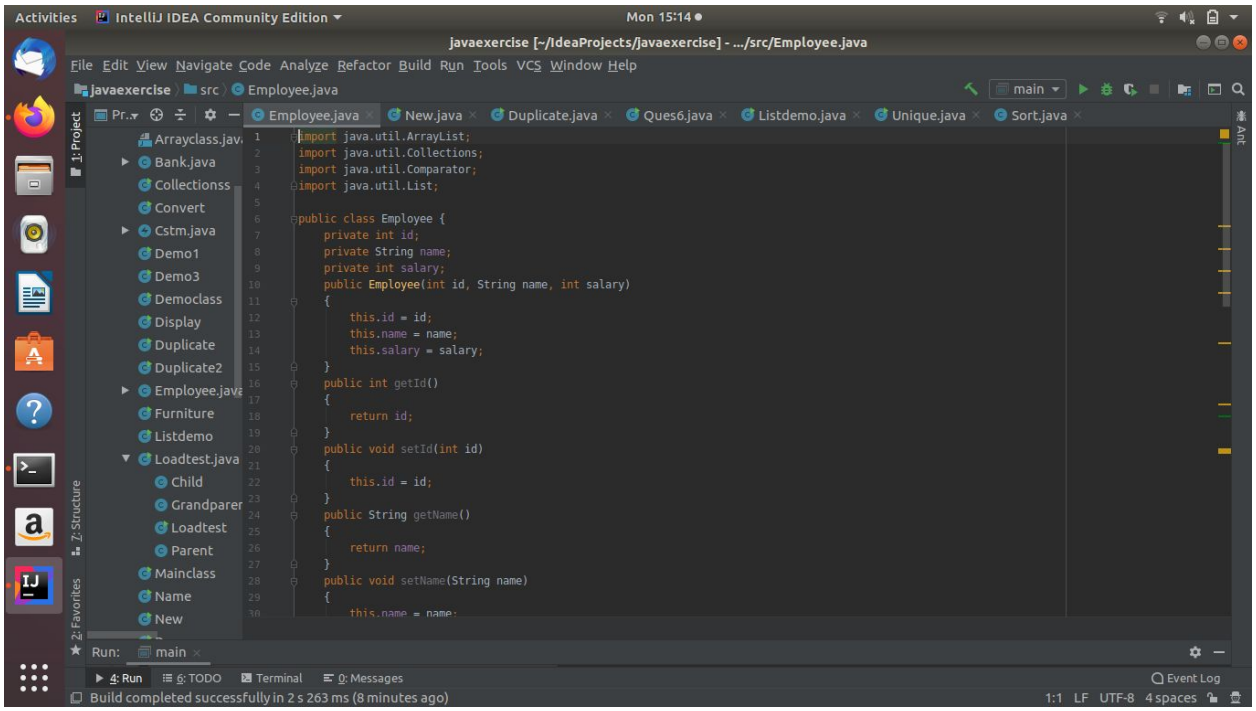
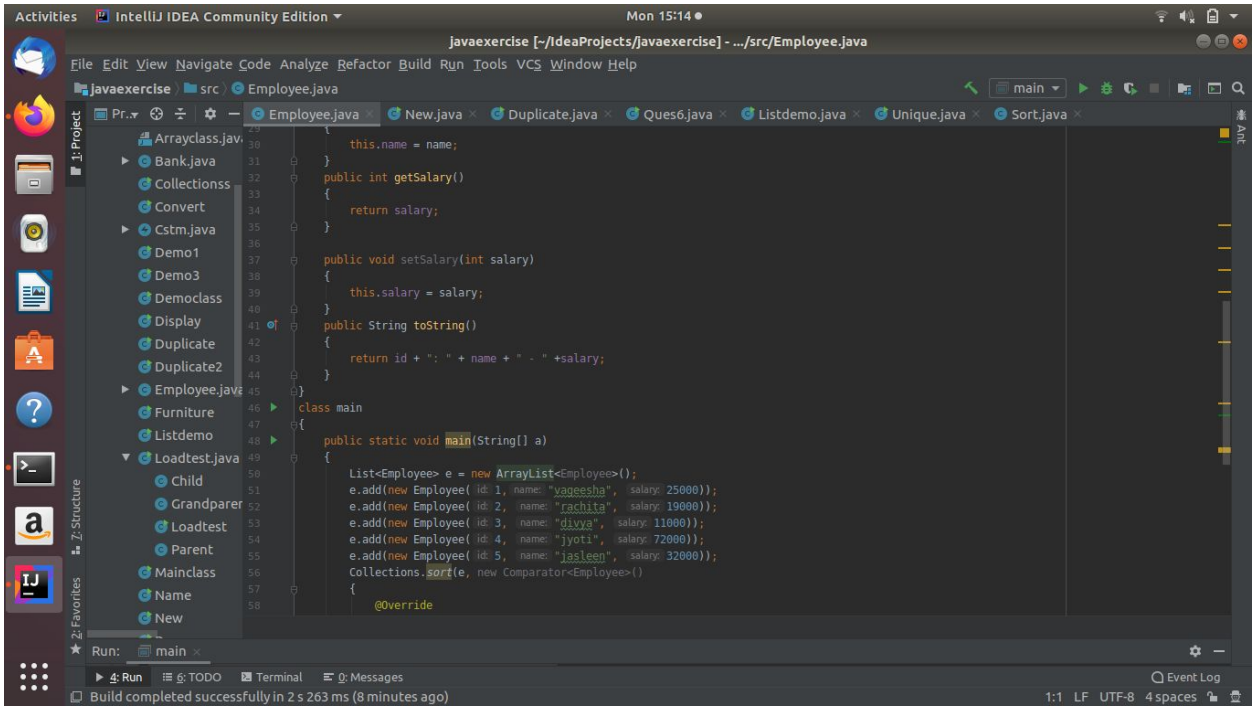
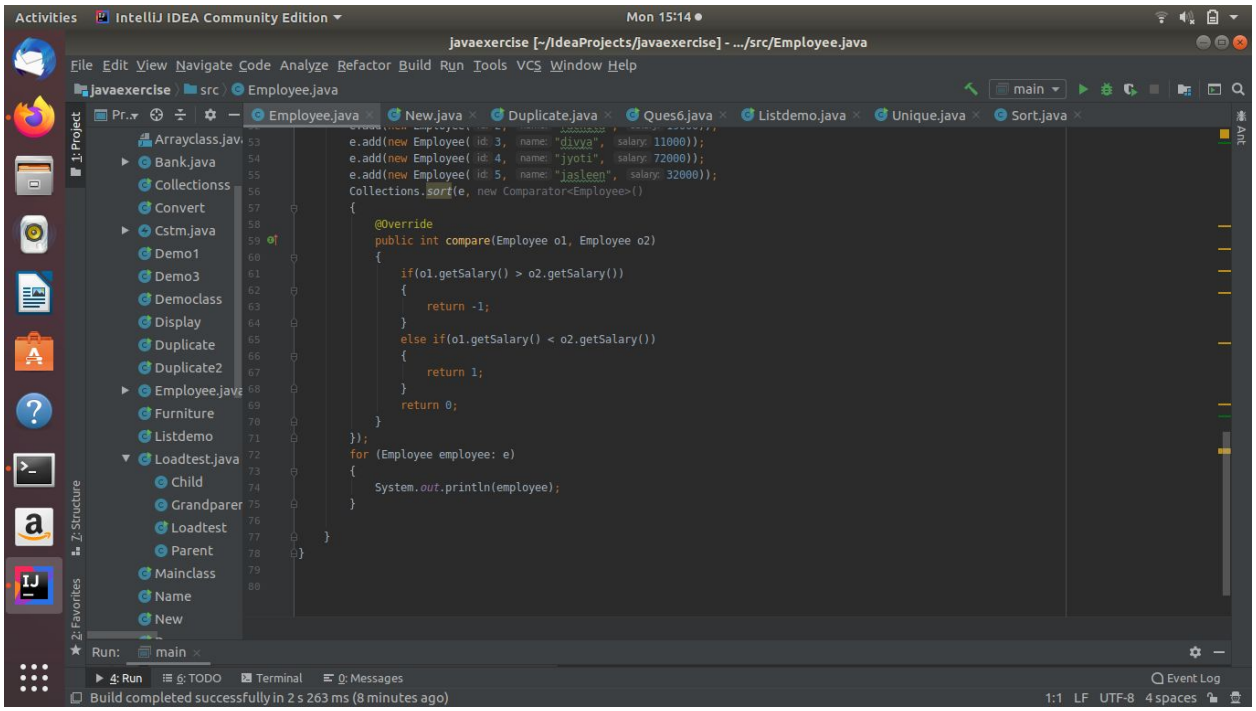
6: TODO Terminal 0: Messages
Event Log
Build completed successfully in 2 s 218 ms (3 minutes ago)
24:24 LF UTF-8 4 spaces

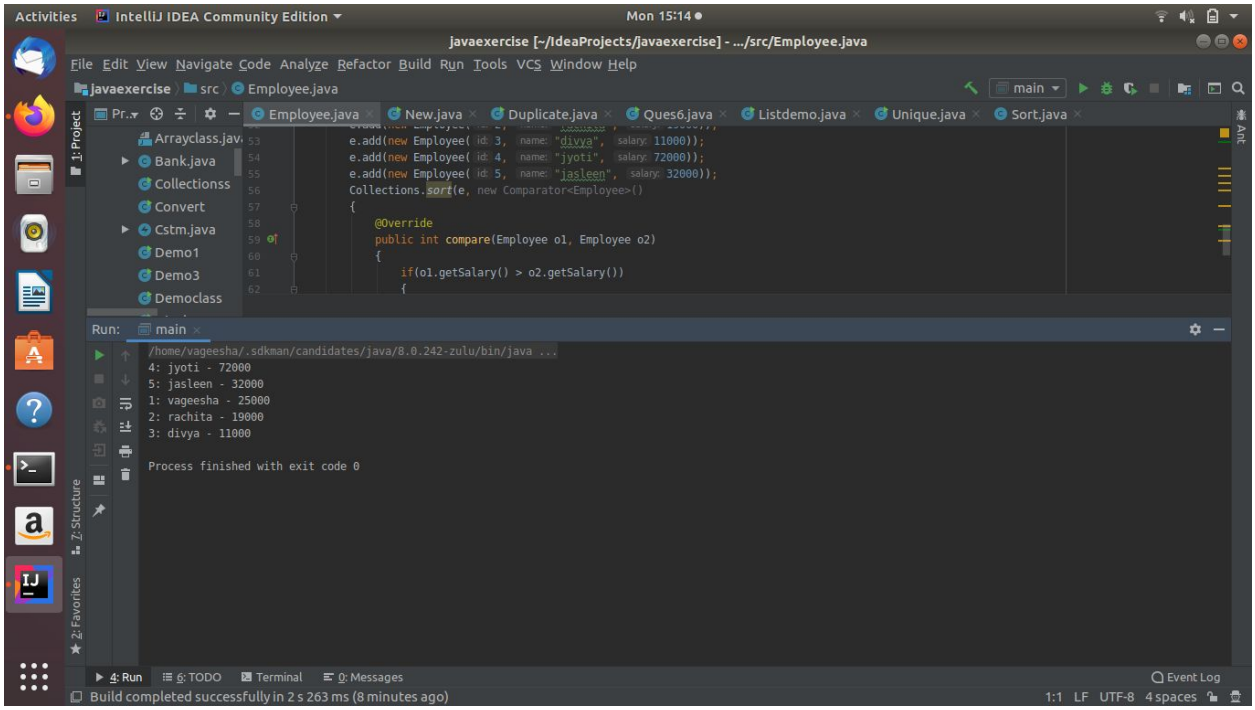


5. **Write a program to sort Employee objects based on highest salary using Comparator. Employee class{ Double Age; Double Salary; String Name**

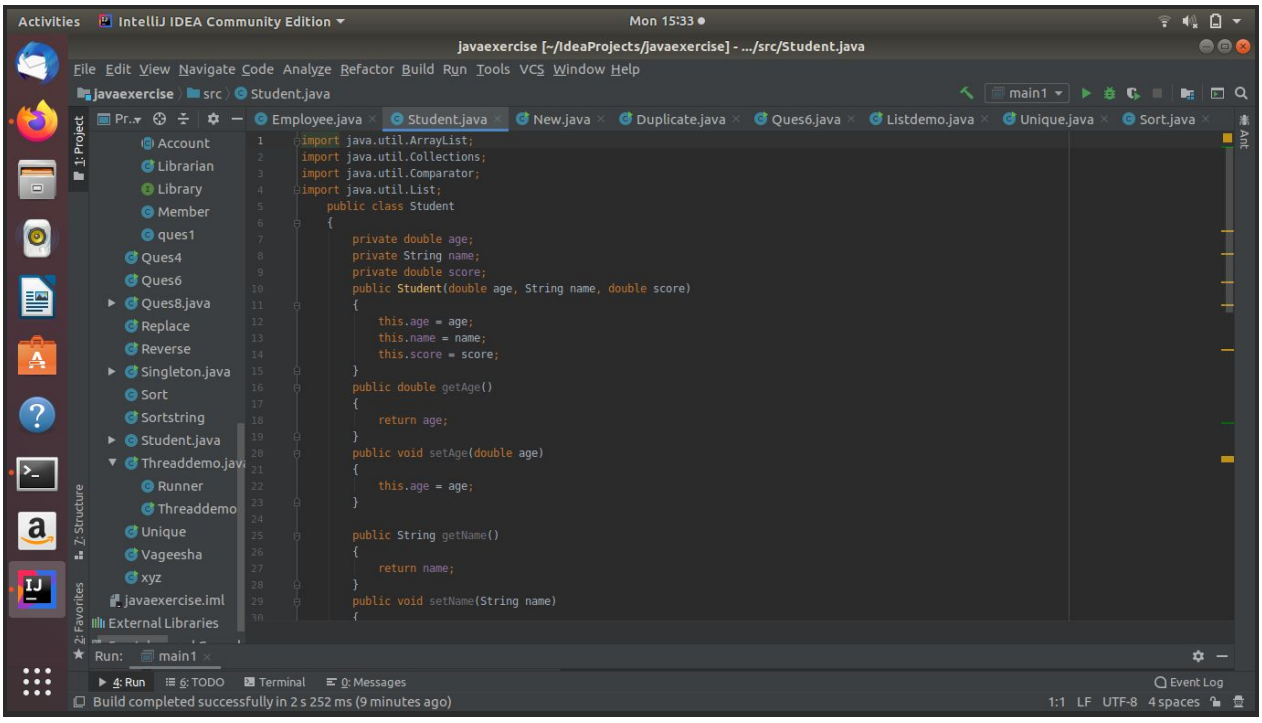


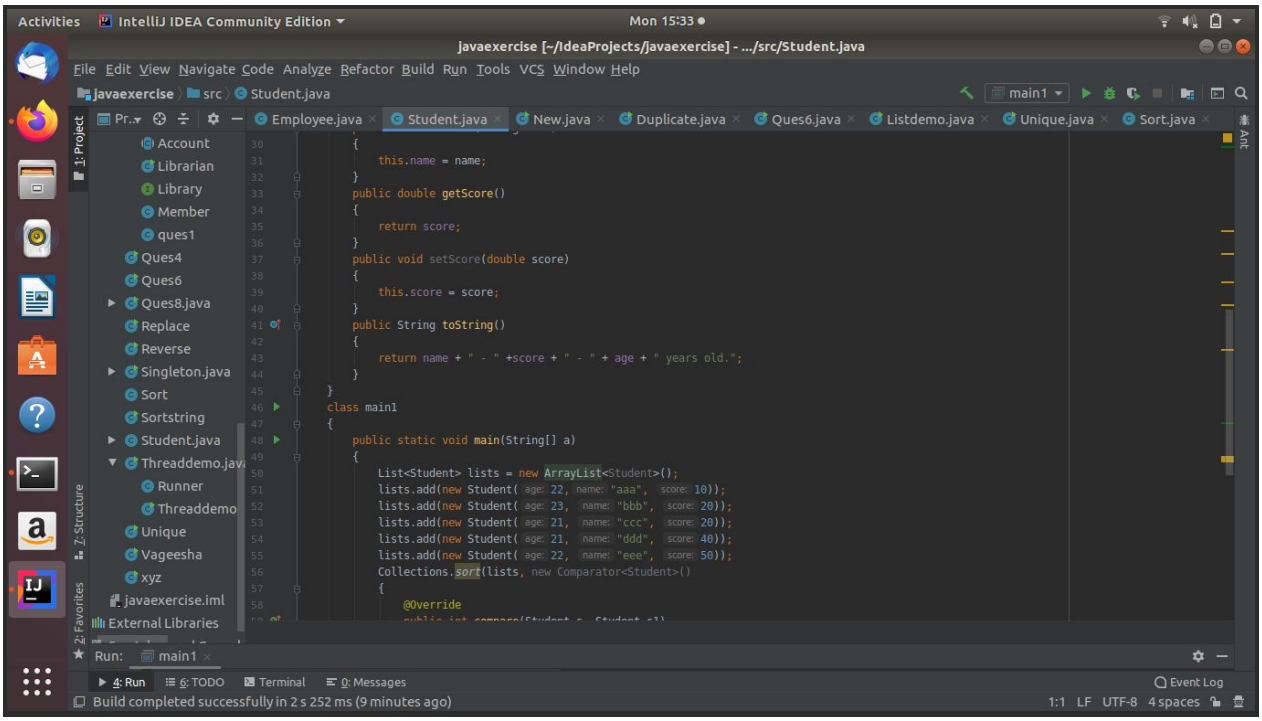

Activities
IntelliJ IDEA Community Edition
Mon 15:14
javaexercise [~/IdeaProjects/javaexercise] - .../src/Employee.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
javaexercise src Employee.java
main
Employee.java
New.java
Duplicate.java
Ques6.java
Listdemo.java
Unique.java
Sort.java
Arrayclass.java
Bank.java
Collectionss
Convert
Cstm.java
Demo1
Demo3
Democlass
Display
Duplicate
Duplicate2
Employee.java
Furniture
Listdemo
Loadtest.java
Child
Grandparer
Loadtest
Parent
Mainclass
Name
New
this.name = name;
}
public int getSalary()
{
return salary;
}
public void setSalary(int salary)
{
this.salary = salary;
}
public String toString()
{
return id + ": " + name + " - " +salary;
}
}
class main
{
public static void main(String[] a)
{
List<Employee> e = new ArrayList<Employee>();
e.add(new Employee(id: 1, name: "vageesha", salary: 25000));
e.add(new Employee(id: 2, name: "rachita", salary: 19000));
e.add(new Employee(id: 3, name: "divya", salary: 11000));
e.add(new Employee(id: 4, name: "jyoti", salary: 72000));
e.add(new Employee(id: 5, name: "jasleen", salary: 32000));
Collections.sort(e, new Comparator<Employee>()
{
@Override
Run: main
4: Run
6: TODO
Terminal
0: Messages
Event Log
Build completed successfully in 2 s 263 ms (8 minutes ago)
1:1 LF UTF-8 4 spaces

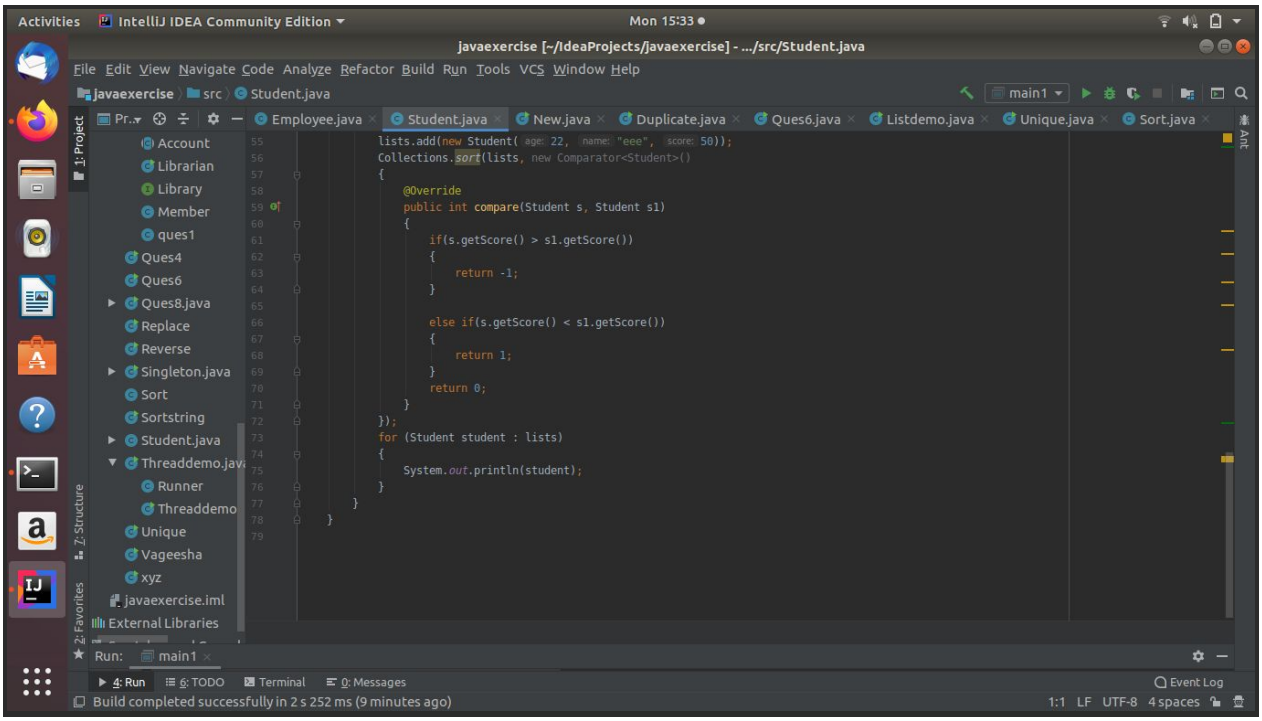

Activities
IntelliJ IDEA Community Edition
Mon 15:14
javaexercise [~/IdeaProjects/javaexercise] - .../src/Employee.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
javaexercise src Employee.java
main
Employee.java
New.java
Duplicate.java
Ques6.java
Listdemo.java
Unique.java
Sort.java
e.add(new Employee(id: 3, name: "divya", salary: 11000));
e.add(new Employee(id: 4, name: "jyoti", salary: 72000));
e.add(new Employee(id: 5, name: "jasleen", salary: 32000));
Collections.sort(e, new Comparator<Employee>()
{
@Override
public int compare(Employee o1, Employee o2)
{
if(o1.getSalary() > o2.getSalary())
{
return -1;
}
else if(o1.getSalary() < o2.getSalary())
{
return 1;
}
return 0;
}
});
for (Employee employee: e)
{
System.out.println(employee);
}
}
}
Run: main
4: Run
6: TODO
Terminal
0: Messages
Event Log
Build completed successfully in 2 s 263 ms (8 minutes ago)
1:1 LF UTF-8 4 spaces

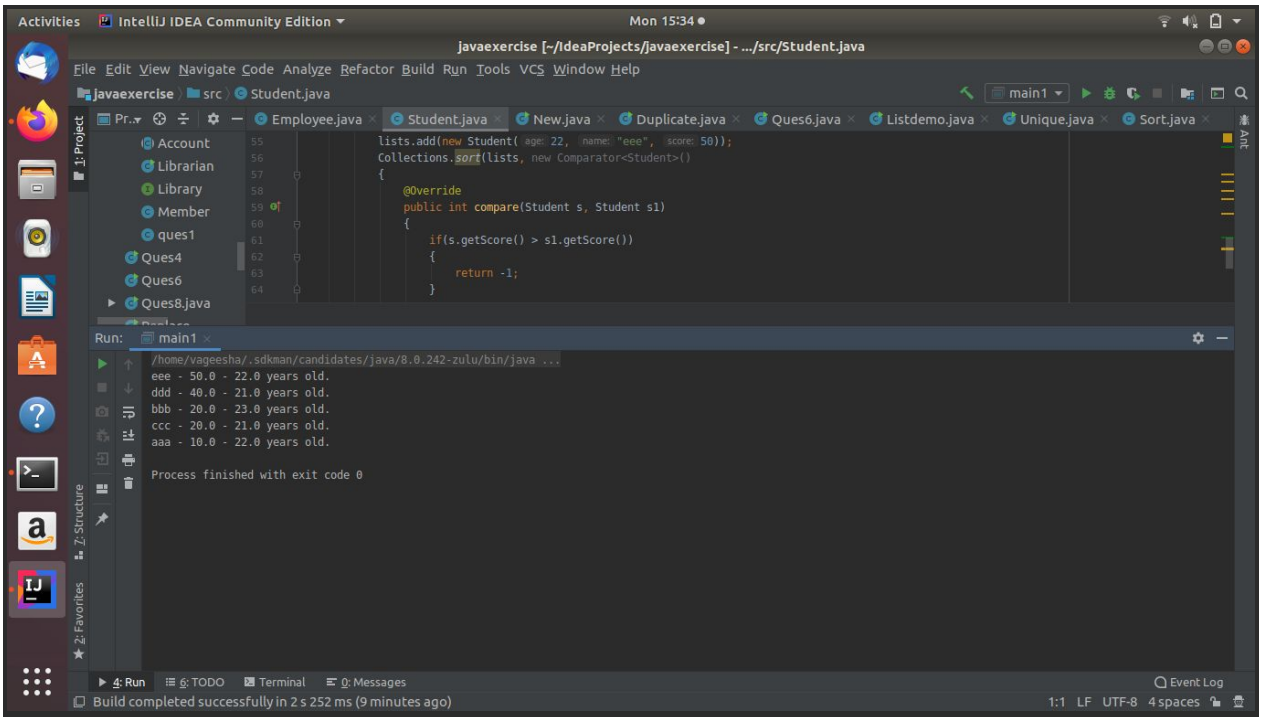


6. **Write a program to sort the Student objects based on Score , if the score are same then sort on First Name . Class Student{ String Name; Double Score; Double Age**




Activities
IntelliJ IDEA Community Edition
Mon 15:33
javaexercise [~/IdeaProjects/javaexercise] - .../src/Student.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
javaexercise src Student.java
main1
Employee.java
Student.java
New.java
Duplicate.java
Ques6.java
Listdemo.java
Unique.java
Sort.java
Account
Librarian
Library
Member
ques1
Ques4
Ques6
Ques8.java
Replace
Reverse
Singleton.java
Sort
Sortstring
Student.java
Threaddemo.java
Runner
Threaddemo
Unique
Vageesha
xyz
javaexercise.iml
External Libraries
{
this.name = name;
}
public double getScore()
{
return score;
}
public void setScore(double score)
{
this.score = score;
}
public String toString()
{
return name + " - " +score + " - " + age + " years old.";
}
}
class main1
{
public static void main(String[] a)
{
List<Student> lists = new ArrayList<Student>();
lists.add(new Student(age: 22, name: "aaa", score: 10));
lists.add(new Student(age: 23, name: "bbb", score: 20));
lists.add(new Student(age: 21, name: "ccc", score: 20));
lists.add(new Student(age: 21, name: "ddd", score: 40));
lists.add(new Student(age: 22, name: "eee", score: 50));
Collections.sort(lists, new Comparator<Student>()
{
@Override
Run: main1
4: Run
6: TODO
Terminal
0: Messages
Event Log
Build completed successfully in 2 s 252 ms (9 minutes ago)
1:1 LF UTF-8 4 spaces


Activities
IntelliJ IDEA Community Edition
Mon 15:33
javaexercise [~/IdeaProjects/javaexercise] - .../src/Student.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
javaexercise src Student.java
main1
Employee.java
Student.java
New.java
Duplicate.java
Ques6.java
Listdemo.java
Unique.java
Sort.java
Account
Librarian
Library
Member
ques1
Ques4
Ques6
Ques8.java
Replace
Reverse
Singleton.java
Sort
Sortstring
Student.java
Threaddemo.java
Runner
Threaddemo
Unique
Vageesha
xyz
javaexercise.iml
External Libraries
lists.add(new Student(age: 22, name: "eee", score: 50));
Collections.sort(lists, new Comparator<Student>()
{
@Override
public int compare(Student s, Student s1)
{
if(s.getScore() > s1.getScore())
{
return -1;
}
else if(s.getScore() < s1.getScore())
{
return 1;
}
return 0;
}
});
for (Student student : lists)
{
System.out.println(student);
}
}
}
Run: main1
4: Run
6: TODO
Terminal
0: Messages
Event Log
Build completed successfully in 2 s 252 ms (9 minutes ago)
1:1 LF UTF-8 4 spaces



7. **Print the elements of an array in the decreasing frequency if 2 numbers have same frequency then print the one which came first.**

8. **Design a Data Structure SpecialStack that supports all the stack operations like push(), pop(), isEmpty(), isFull() and an additional operation getMin() which should return minimum element from the SpecialStack. (Expected complexity O(1))**