- 1. Principle Violated: Single Responsibility Principle.
- 2. Reason: Uncle Bob states that A class should have only one reason to change. Also, according to Single Responsibility principle, Every module or class should have responsibility over a single part of the functionality provided by the software, and that responsibility should be entirely encapsulated by the class. But in the given code, ProfitReport.java contains the logic for creation of the report, printing of the report and sending the email of the report. Printing and emailing the report should not be the part of ProfitReport class. To avoid this violation, I have moved the printing logic and email sending logic to separate classes. I have created a method getReport() in ProfitReport.java which returns reportData (ArrayList<String>). I have passed this reportData as an argument to the methods which contains the logic to print and email the report.
- The following code fixes the violation of Single Responsibility Principle. EmailSender.java PrintReport.java ProfitReport.java SendEmailOfReport.java