Gebze Technical University
Computer Engineering

CSE 222 - 2018 Spring

HOMEWORK 8 REPORT

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Course Assistant:

- **INTRODUCTION**

- **Problem Definition**

the problem is to implement a graph calss with transitive relation between the object

- **System Requirements**
  - Windows 10/8/7/Vista/XP (incl. 64-bit)
  - 2 GB RAM minimum, 4 GB RAM recommended
  - 1.5 GB hard disk space + at least 1 GB for caches
  - 1024x768 minimum screen resolution

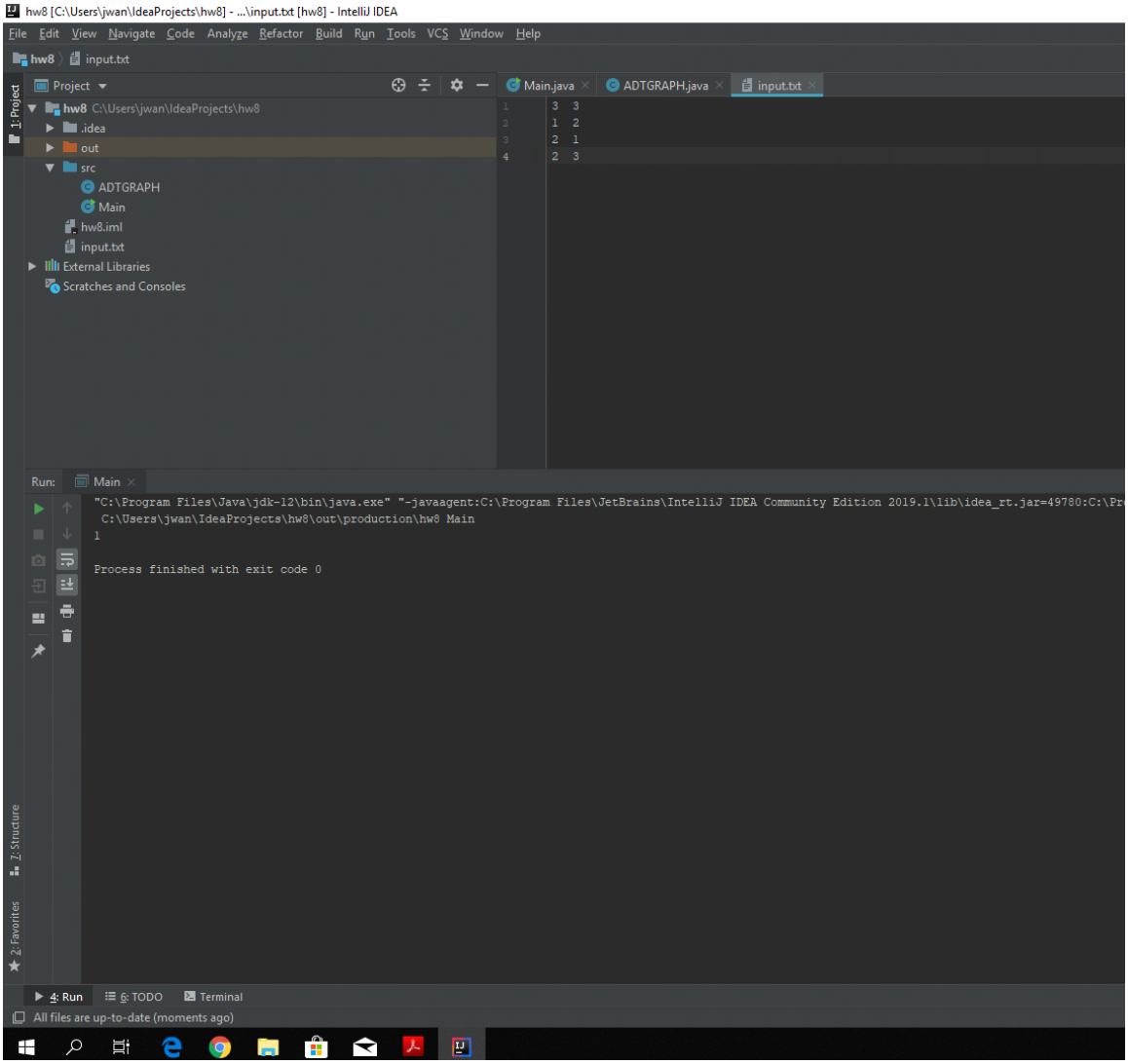
- **METHOD**

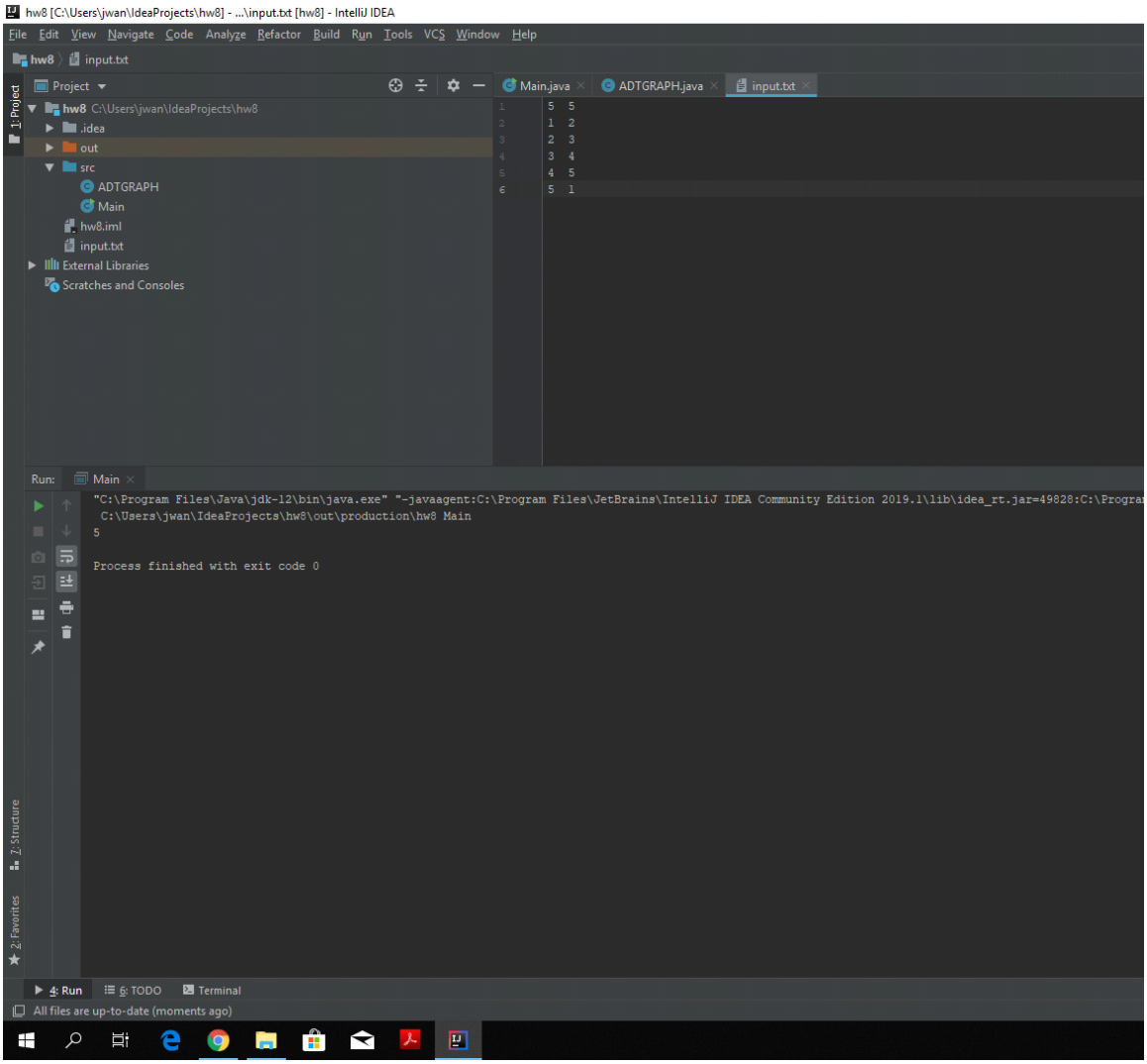
- **Problem Solution Approach**

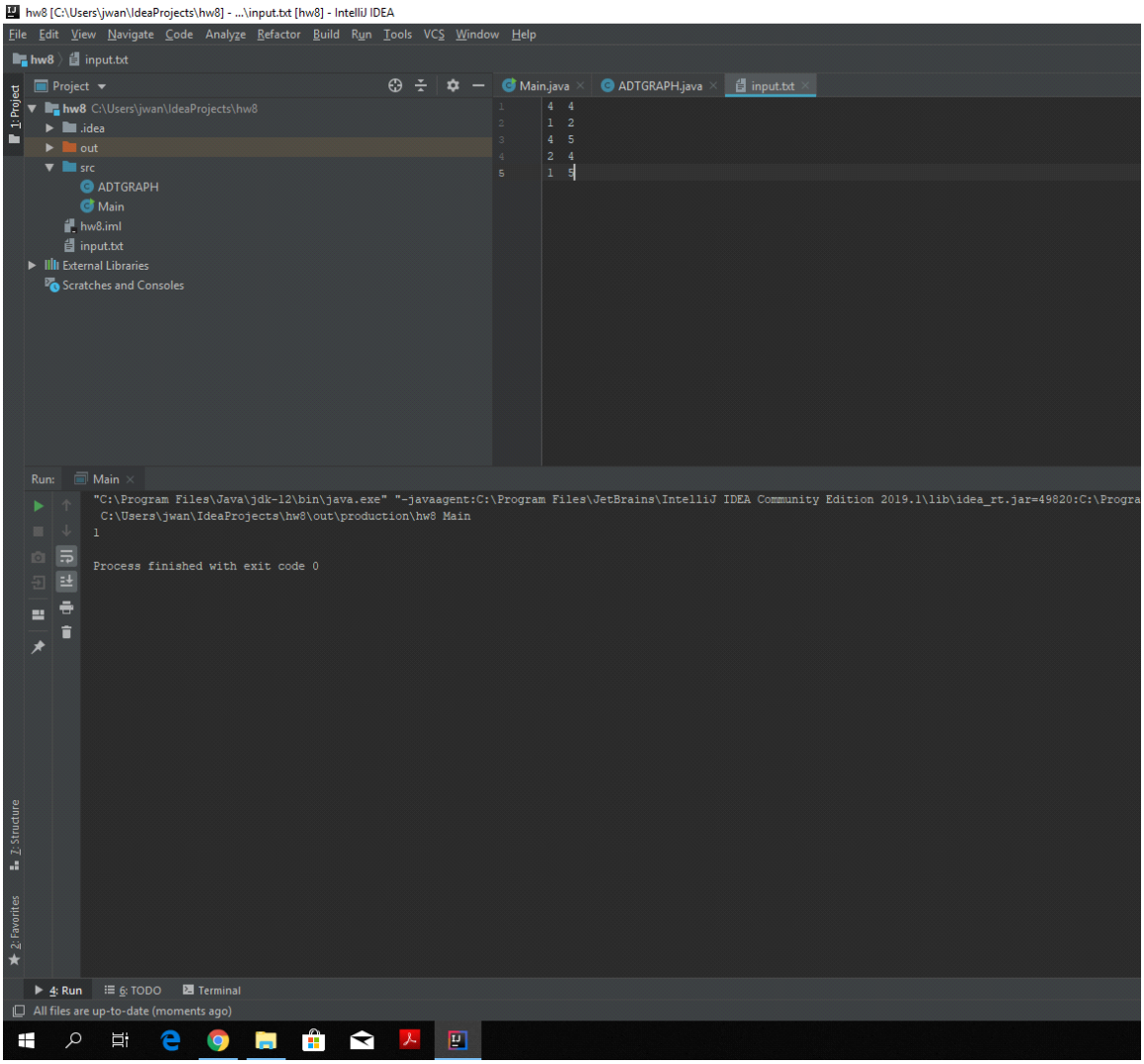
```
public int getNumV()                          return number of vertices
public int getNumE()                          return number of edges
public int[] getVertices()                    return an array of vertices
private void setNumV(int num)                 set the number of vertices
private void setNumE(int num)                 set the number of edge
public boolean load_edge(Scanner scan)        return true while not end of file and
                                             loads a new relation
public void set_transitive_relation()        set the transitive relation between
                                              vertices
public int popularNum()                       return the number of popular vertices
public boolean is_edge(int src , int dest)   return true if there is an edge
                                          between src and dest
```

- **RESULT**

- **Running Results**




hw8 [C:\Users\jwan\IdeaProjects\hw8] - ...\input.txt [hw8] - IntelliJ IDEA
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
hw8 input.txt
Project
hw8 C:\Users\jwan\IdeaProjects\hw8
.idea
out
src
ADTGRAPH
Main
hw8.iml
input.txt
External Libraries
Scratches and Consoles
Main.java
ADTGRAPH.java
input.txt
5 5
1 2
2 3
3 4
4 5
5 1
Run:
Main
"C:\Program Files\Java\jdk-12\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.1\lib\idea_rt.jar=49828:C:\Progra
C:\Users\jwan\IdeaProjects\hw8\out\production\hw8 Main
5
Process finished with exit code 0
4: Run
6: TODO
Terminal
All files are up-to-date (moments ago)



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- Paragraph -> 12pt, 1.5 line break