[10# Prototype Program]

[5] – [SoftProLab Team]

Supervisor:
Dr. Katalin Balla

Members:

Hagverdiyev Subhan	NHL9KN	subhan.hakverdiyev@gmail.com
Madatov Ali	XVEARA	ali.madatov@hotmail.com
Shoaib Areeba Tabassum	EZXFWK	areebashoaib99@gmail.com
Salahov Kamal	IG5LSM	salahovkamal@hotmail.com
Singh Gurdeep	ERXIPV	sandhugoldy433@gmail.com

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19 April 2021

10.1 Deployment guide

10.1.1 List of files

File name	Size (KB)	Date	Content
Asteroid.Java	2	19th April 2021	Asteroid class
AsteroidTest.Java	2	19th April 2021	Testing
Carbon.Java	1	19th April 2021	Carbon Class
Game.Java	3	19th April 2021	GameClass
GameTest.Java	1	19th April 2021	Testing
Gate.Java	1	19th April 2021	Gate Class
GateTest.java	1	19th April 2021	Testing
GenSunStrom.Java	1	19th April 2021	GenSunStrom Class
Identity.Java	1	19th April 2021	Identity class
Iron.Java	1	19th April 2021	Iron class
Main.java	1	19th April 2021	Main method
Mineral.Java	1	19th April 2021	Mineral class
Place.Java	1	19th April 2021	Place class
Robot.Java	1	19th April 2021	Robot class
Settler.Java	2	19th April 2021	Settler class
SettlerTest.java	2	19th April 2021	Testing
SunStorm.Java	2	19th April 2021	Sunstrom class
Traveller.Java	1	19th April 2021	Traveller class
Uranium.Java	1	19th April 2021	Uranium class
WaterIce.Java	1	19th April 2021	WaterIce class

10.1.2 Compilation

1st Method:

For the Compilation , it is necessayr that valid Java Development kit should be Installed in
our computer because it is a software Environment used to run Java applications. JDK also
includes (Java RunTime Environment) JRE, an interpretor/loader(java), a compiler(javac), an
archiver(jar) and many other tools which are necessay for Java Development. For compiling
we are going to navigate the extracted files with a command promt(powershell etc.). We have
to make sure that the JDK bin folder is added in the path. We will go the directory where java
program is stored and press enter to compile the code, if the code is correct and no errors are
noticed then the command Promt will take us to the next line. The following commands can
be run for comilation purposes.

```
mkdir .\class
javac -d .\class .\Asteroid.Java .\AsteroidTest.java .\Carbon.java .\Game.java .
\GameTest.java .\Gate.java .\GenSunStrom.java .\Iron.java .\Mineral.java .\Place.java
.\Robot.java .\Settler.java .\Sunstorm.java .\Traveller.java .\Uraium.java .
\WaterIce.java
```

2nd Method:

The second method which can be used to compile the javafiles is to create a new project and
import all the source files into any Java IDE(Eclipse, Netbeans etc) and then we can compile
all the source files with the built In compilation feature which is auomatically offere by these
IDE's

2

19 April 2021

10.1.3 Run

If we are using windows, then we are going to write the following command to run:

```
java -cp .\class AsteroidGame.Game
```

10.2 Test protocols

10.2.1 Test-case1

Name of the tester	Areeba T. Shoaib
Date & time of test	18 April 2021 9:00 am

10.2.2 Test-case2

Name of the tester	Areeba T. Shoaib
Date & time of test	18 April 2021 9:00 am

10.2.3 Test-case3

Date & time of test	18 April 2020
Name of the tester	Areeba
Result (failure)	Java.lang.IndexOutOfBoundsException : index 0 , Size 0
Possible causes	When we get the element of an empty array.
Correction	Implementation of non nullable initial values to the line of code.

10.2.4 Test-case4

Name of the tester	Areeba
Date & time of test	18 April 2020
Result (failure)	Game cannot be case to java.lang.Runnable
Possible causes	Start Thread implements Runnable. This creates Type casting problem
Correction	Runnable should extend Thread

19 April 2021

10.3 Evaluation

Name of the team member	Participation (%)
Hagverdiyev Subhan	20%
Madatov Ali	20%
Shoaib Areeba Tabassum	20%
Singh Gurdeep	20%
Salahov Kamal	20%

10.3 Evaluation

19 April 2021

10.4 Protocol

Start (date & time)	Duration (hours)	Performer(s) name	Activity description
15 April 2021	2 hours	Areeba, Ali Madatov, Subhan Hagverdiyev, Kamal Salahov, Gurdeep Singh	Understanding of the tasks and requiremnts and documentaion and assigning of the tasks
18th April 2021	3 hours	Kamal Salahov	Implementation of classes
18th April 2021	3 hours	Gurdeep Singh	Implementation ofclasses
18th April 2021	3 hours	Subhan Hagverdiyev	Implementation of classes
18th April 2021	3 hours	Ali Madatov	Implementation of classes
18th April 2021	3 hours	Areeba T. Shoaib	Implementatin of test cases and documentaion