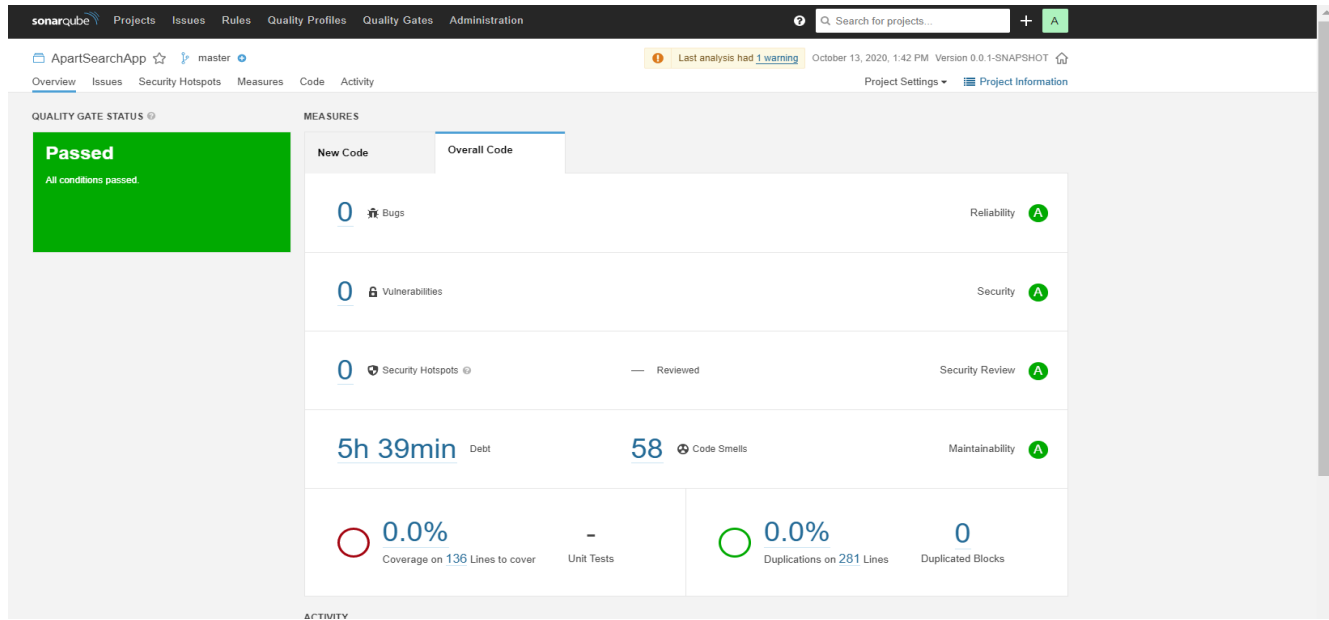


The output of Assignment 2

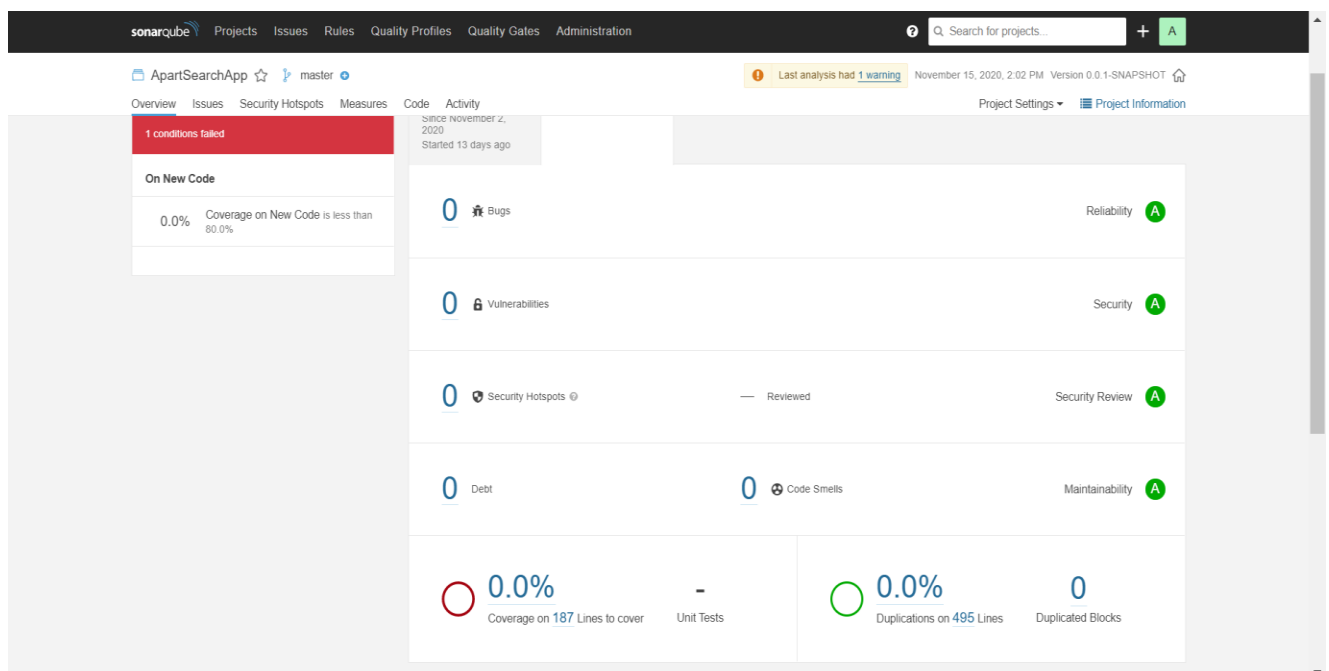
Done by: Khadija Al-Aqra – 11-12:30

Meera Barakat-11-12:30

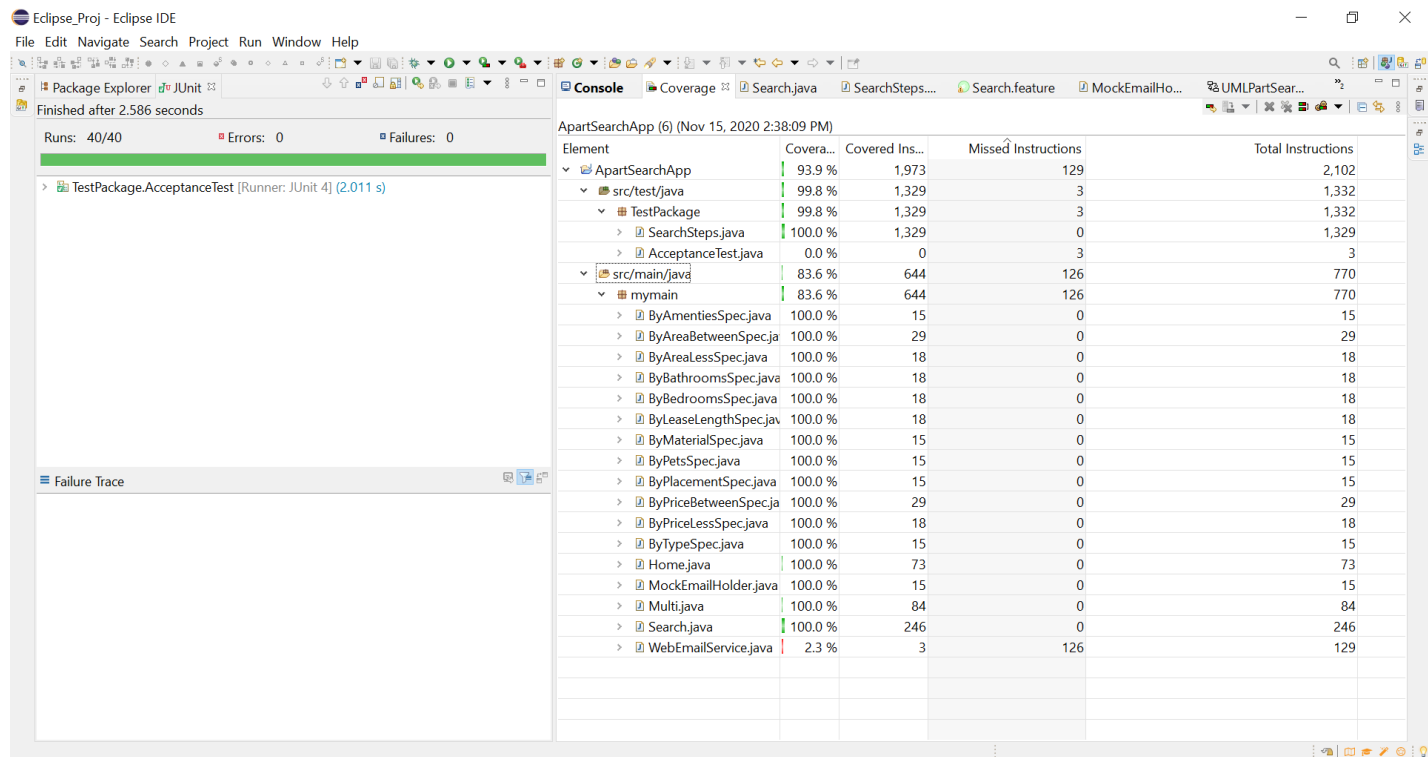
A. Sonar Before:



B. Sonar After:



C. Coverage After:



D. Jenkins:

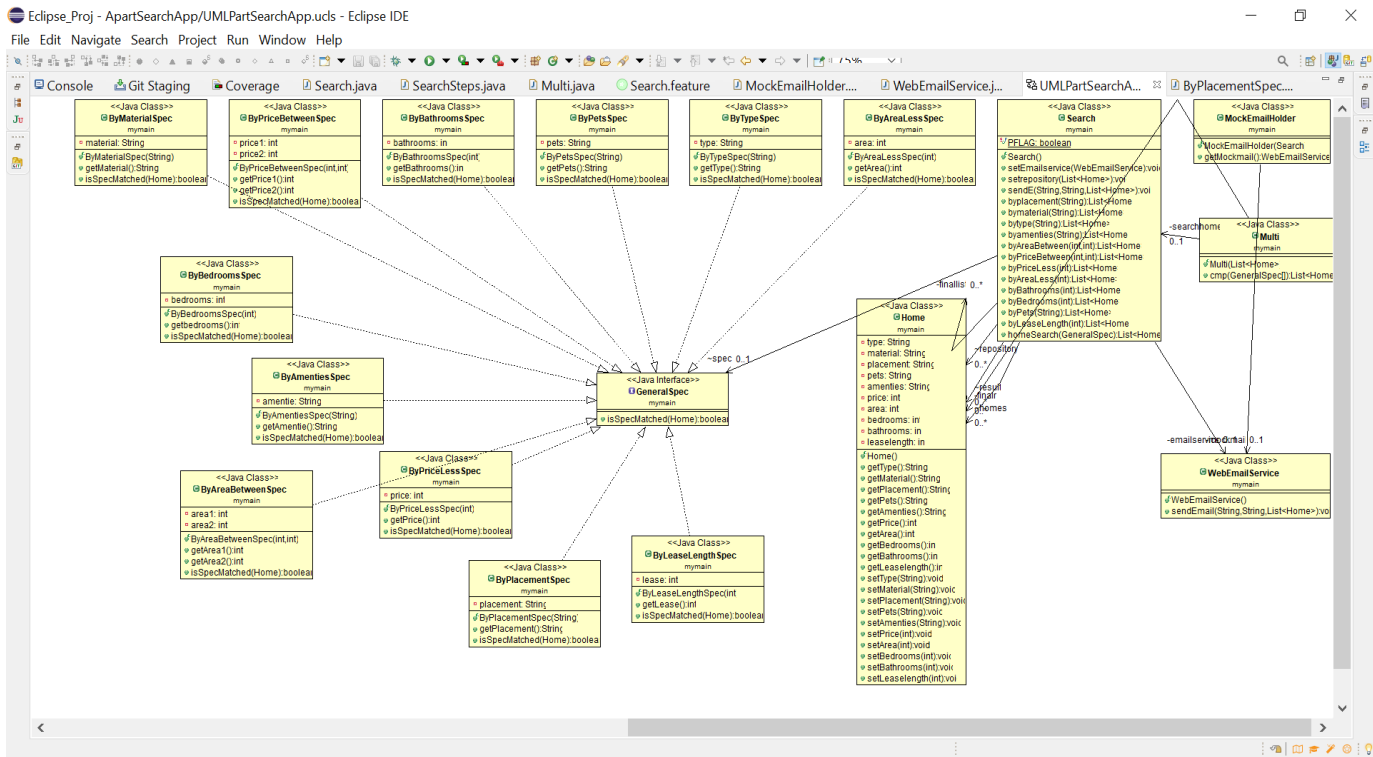
The screenshot shows the Jenkins web interface for build #2514 of the 'SoftwareProj' project. The 'Console Output' view is active, displaying the following text:

```
Started by timer
Running as SYSTEM
Building in workspace C:\WINDOWS\system32\config\systemprofile\AppData\Local\Jenkins\.jenkins\workspace\SoftwareProj
The recommended git tool is: NONE
using credential 00378ffa-da54-499c-ae5a-2485e5c930d4
> C:\Program Files\Git\bin\git.exe rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/MeeraBarakat/SoftwareProject # timeout=10
Fetching upstream changes from https://github.com/MeeraBarakat/SoftwareProject
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> git --version # 'git version 2.28.0.windows.1'
using GIT_ASKPASS to set credentials
> C:\Program Files\Git\bin\git.exe fetch --tags --force --progress -- https://github.com/MeeraBarakat/SoftwareProject +refs/heads/*:refs/remotes/origin/* # timeout=10
> C:\Program Files\Git\bin\git.exe rev-parse "origin/master^{commit}" # timeout=10
Checking out Revision 79a5a986f6d9f1cd1e7f859a98576636482c3694 (origin/master)
> C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10
> C:\Program Files\Git\bin\git.exe checkout -f 79a5a986f6d9f1cd1e7f859a98576636482c3694 # timeout=10
Commit message: "Refactor..."
> C:\Program Files\Git\bin\git.exe rev-list --no-walk 79a5a986f6d9f1cd1e7f859a98576636482c3694 # timeout=10
[Checks API] No suitable checks publisher found.
[SoftwareProj] $ cmd.exe /C "C:\apache-maven-3.6.3\bin\mvn.cmd clean compile package install sonar:sonar -Dsonar.host.url=https://sonarcloud.io/ -Dsonar.projectKey=MeeraBarakat_SoftwareProject -Dsonar.organization=meera-barakat -Dsonar.projectName=SoftwareProject -Dsonar.moduleName=SoftwareProject -Dsonar.java.libraries=C:\Program Files\Git\bin\git.exe"
[SoftwareProj] $
```

```
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ ApartSearchApp ---
[INFO] Deleting C:\Windows\System32\config\systemprofile\AppData\Local\Jenkins\.jenkins\workspace\SoftwareProj\target
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ ApartSearchApp ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory
C:\Windows\System32\config\systemprofile\AppData\Local\Jenkins\.jenkins\workspace\SoftwareProj\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ ApartSearchApp ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 2 source files to
C:\Windows\System32\config\systemprofile\AppData\Local\Jenkins\.jenkins\workspace\SoftwareProj\target\classes
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ ApartSearchApp ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory
C:\Windows\System32\config\systemprofile\AppData\Local\Jenkins\.jenkins\workspace\SoftwareProj\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ ApartSearchApp ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ ApartSearchApp ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory
C:\Windows\System32\config\systemprofile\AppData\Local\Jenkins\.jenkins\workspace\SoftwareProj\src\test\resources
[INFO]
```

```
[INFO] Sensor Zero Coverage Sensor
[INFO] Sensor Zero Coverage Sensor (done) | time=18ms
[INFO] Sensor Java CPD Block Indexer
[INFO] Sensor Java CPD Block Indexer (done) | time=33ms
[INFO] SCM Publisher SCM provider for this project is: git
[INFO] SCM Publisher 4 source files to be analyzed
[INFO] SCM Publisher 4/4 source files have been analyzed (done) | time=357ms
[INFO] CPD Executor Calculating CPD for 2 files
[INFO] CPD Executor CPD calculation finished (done) | time=16ms
[INFO] Analysis report generated in 153ms, dir size=132 KB
[INFO] Analysis report compressed in 467ms, zip size=30 KB
[INFO] Analysis report uploaded in 119ms
[INFO] ANALYSIS SUCCESSFUL, you can browse http://localhost:9000/dashboard?id=myApps%3AApartSearchApp
[INFO] Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
[INFO] More about the report processing at http://localhost:9000/api/ce/task?id=AXVfhxqYv\_fCNA3oqA5-
[INFO] Analysis total time: 11.548 s
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 23.297 s
[INFO] Finished at: 2020-10-25T14:31:31+03:00
[INFO] -----
[Checks API] No suitable checks publisher found.
Finished: SUCCESS
```

E. UML-Diagram:



F. Output Screenshots

```

1 Feature: Search about suitable home
2
3 Background: The System has a repository of homes with their specifications (type-material-placement-pets-amenities)
4 Given these homes are contained in the system
5
6         |HOUSE_WOOD_VILLAGE_NO_GARAGEPARKING,FIREPLACE,ELEVATOR|510_150_3_2_6|
7         |APARTMENT_BRICK_CITY_NO_ELEVATOR|230_120_4_2_12|
8 Scenario Outline: Search hom by placement
9 When I search about home by <placement>
10 Then A list of homes that matches the placement specification should be returned and printed on the console
11 And The result should be sent to Email "khq210@gmail.com"
12 Examples:
13 |placement|
14 |"City"|
15 |"Village"|
16

```

The screenshot shows the Eclipse IDE interface. The Package Explorer on the left indicates that the test 'TestPackage.AcceptanceTest' was run successfully, taking 1.505 seconds. The Console on the right shows the test output, which includes the following information:

```

<terminated: AcceptanceTest (1) [JUnit] C:\Program Files\Java\jdk-11.0.6\bin\javaw.exe (Nov 17, 2020, 10:11:23 PM)
Placement filter =>

Home[type:APARTMENT,Material:BRICK,Placement:CITY
,Allow Pets:NO,Amenties:ELEVATOR,
Price:230,Area:120,Bedrooms:4,
Bathrooms:2,leaselelength:12]
Placement filter =>

Home[type:HOUSE,Material:WOOD,Placement:VILLAGE
,Allow Pets:NO,Amenties:GARAGEPARKING,FIREPLACE,ELEVATOR,
Price:510,Area:150,Bedrooms:3,
Bathrooms:2,leaselelength:6]

```

```

6
7 Scenario Outline: Search home by material
8 When I search about home by <Material> material
9 Then A list of homes that matches the material specification should be returned and printed on the console
10 And The result should be sent to Email "khq210@gmail.com"
11 Examples:
12 |Material|
13 |"Stone"|
14 |"Brick"|
15 |"Wood"|

```

```

java - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Package Explorer JUnit SearchSteps.java AcceptanceTest.java
Finished after 1.907 seconds
Runs: 40/40 Errors: 0 Failures: 0
TestPackage.AcceptanceTest [Runner: JUnit 4] (1.505 s)
Material filter =>
Home[type:APARTMENT,Material:BRICK,Placement:CITY,
,Allow Pets:NO,Amenties:ELEVATOR,
Price:230,Area:120,Bedrooms:4,
Bathrooms:2,leaseleenght:12]
Material filter =>
Home[type:HOUSE,Material:WOOD,Placement:VILLAGE
,Allow Pets:NO,Amenties:GARAGEPARKING,FIREPLACE,ELEVATOR,
Price:510,Area:150,Bedrooms:3,
Bathrooms:2,leaseleenght:6]

```

```

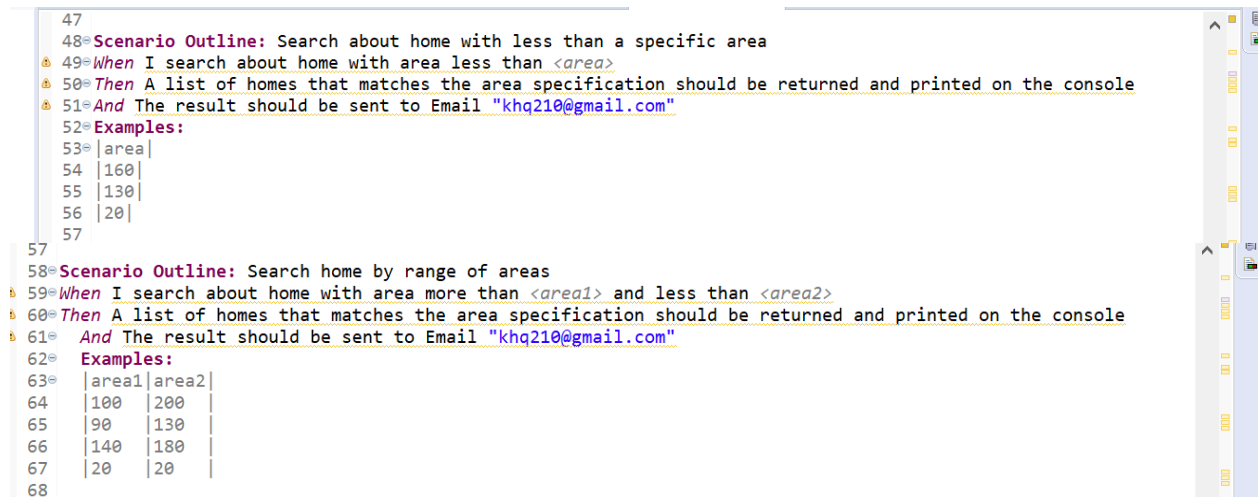
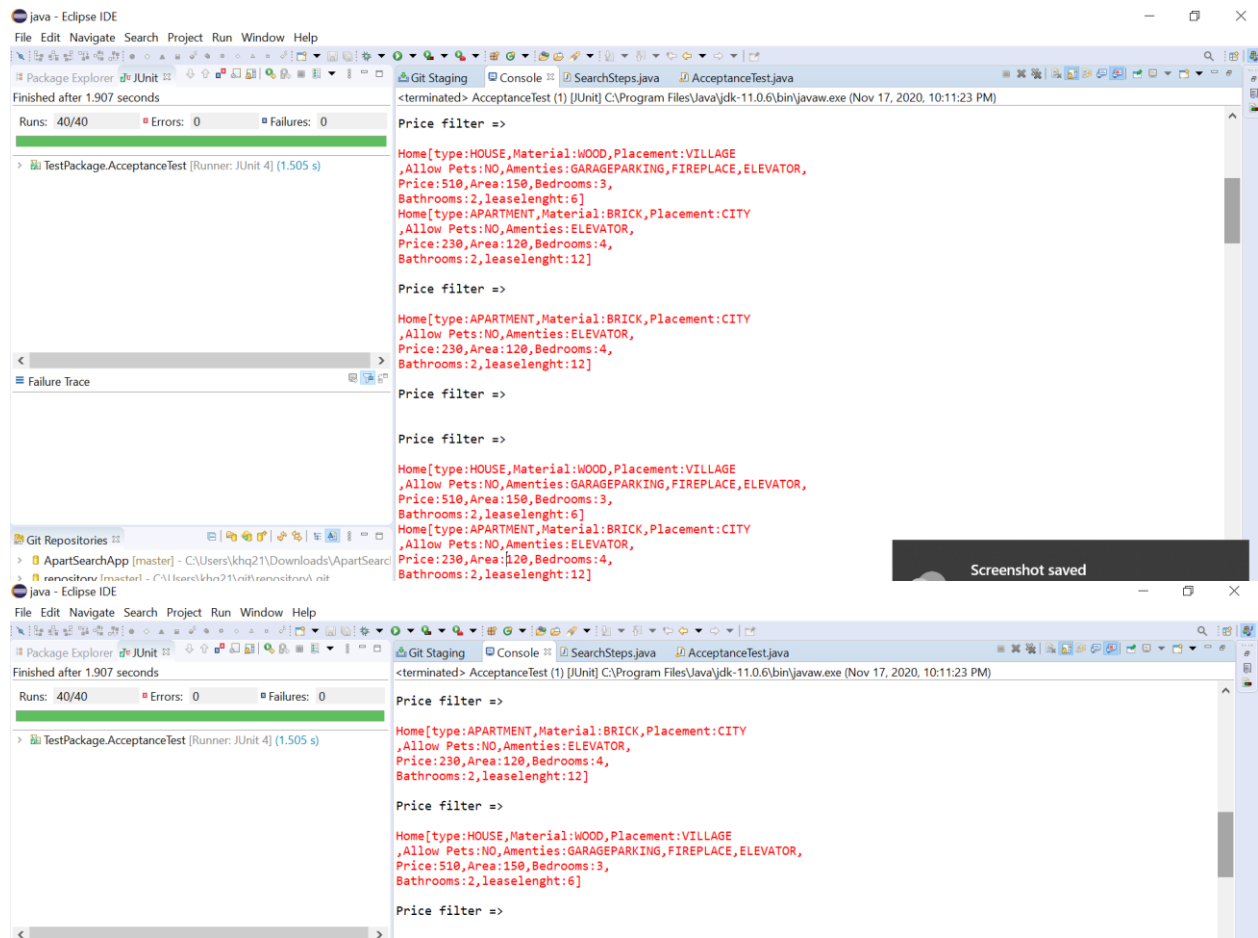
27 Scenario Outline: Search about home with less than a specific price
28 When I search about home with price less than <price>
29 Then A list of homes that matches the price specification should be returned and printed on the console
30 And The result should be sent to Email "khq210@gmail.com"
31 Examples:
32 |price|
33 |520|
34 |240|
35 |20|

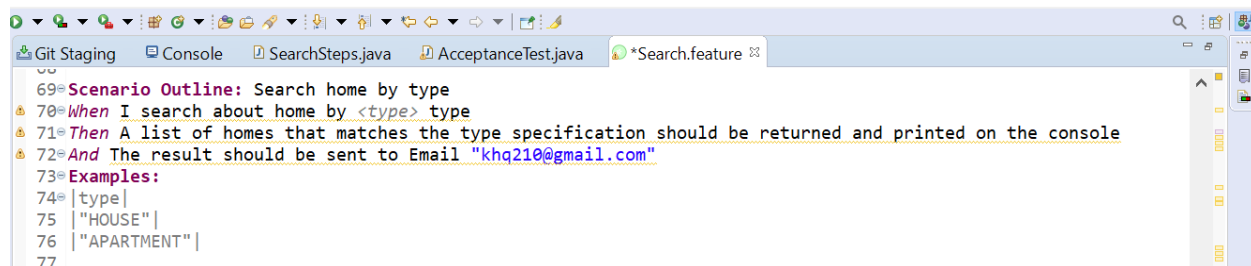
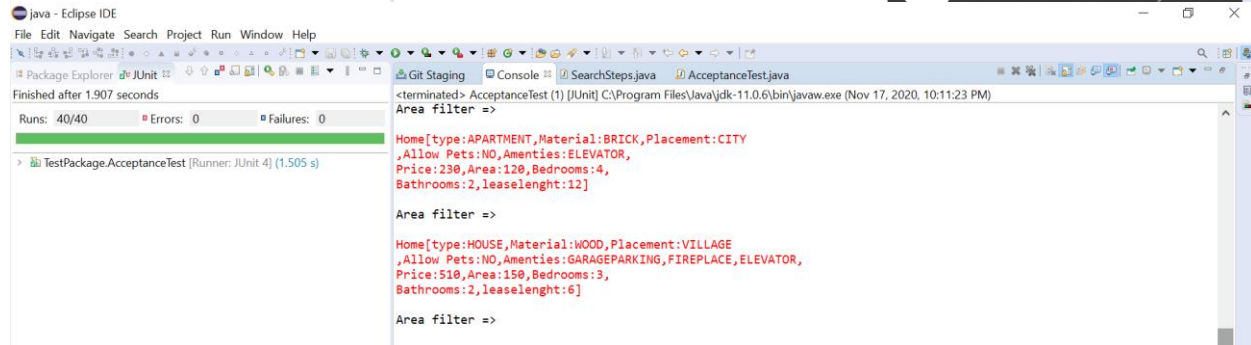
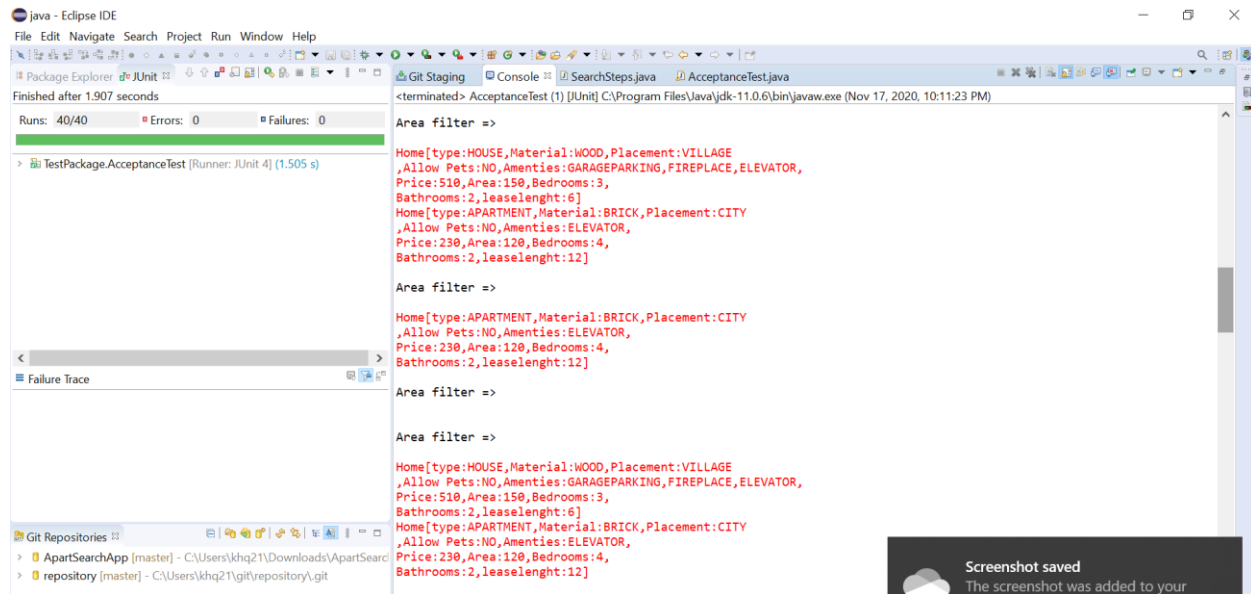
```

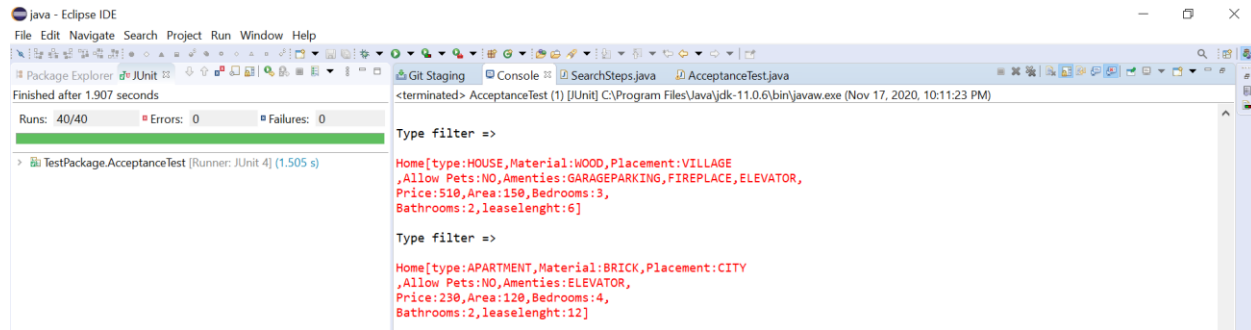
Scenario Outline: Search home by range of prices
When I search about home with price more than <price1> and less than <price2>
Then A list of homes that matches the price specification should be returned and printed on the console
And The result should be sent to Email "khq210@gmail.com"

Examples:

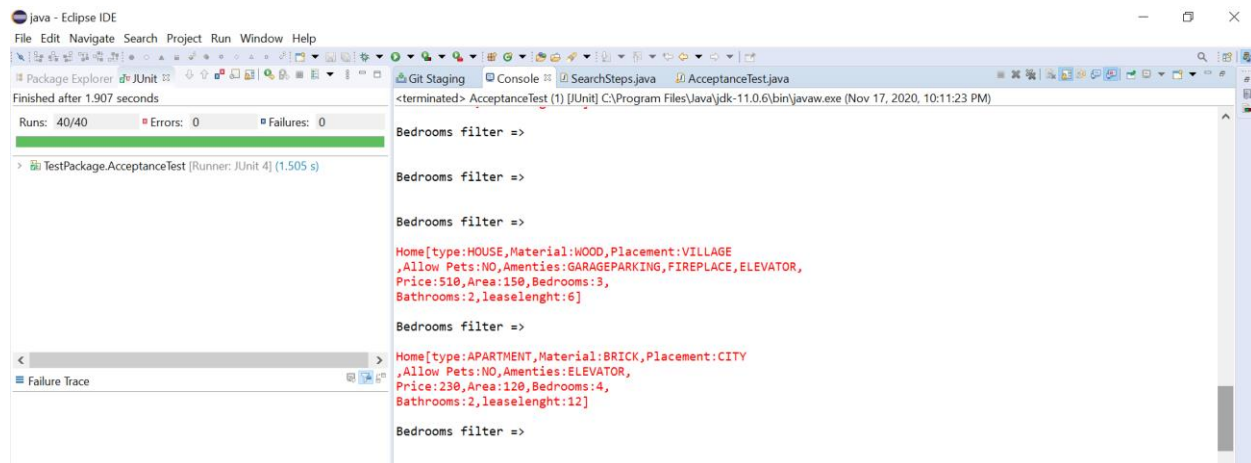
price1	price2
210	520
210	240
500	520
20	20



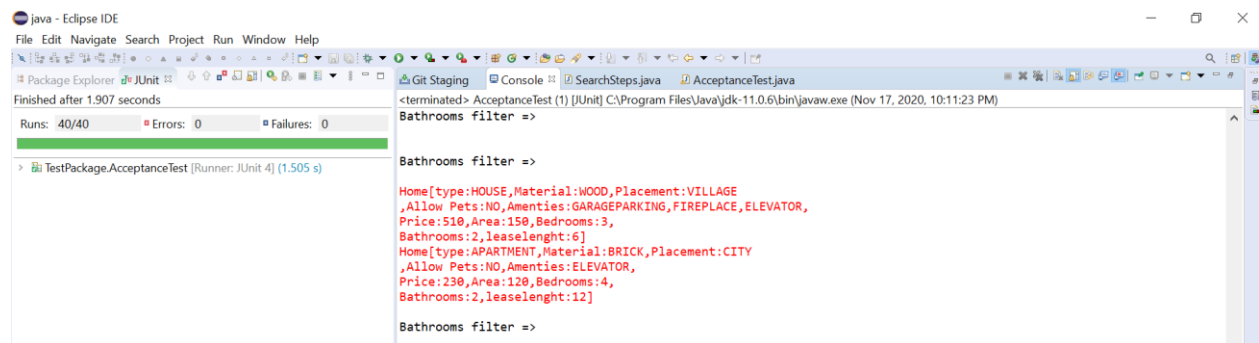




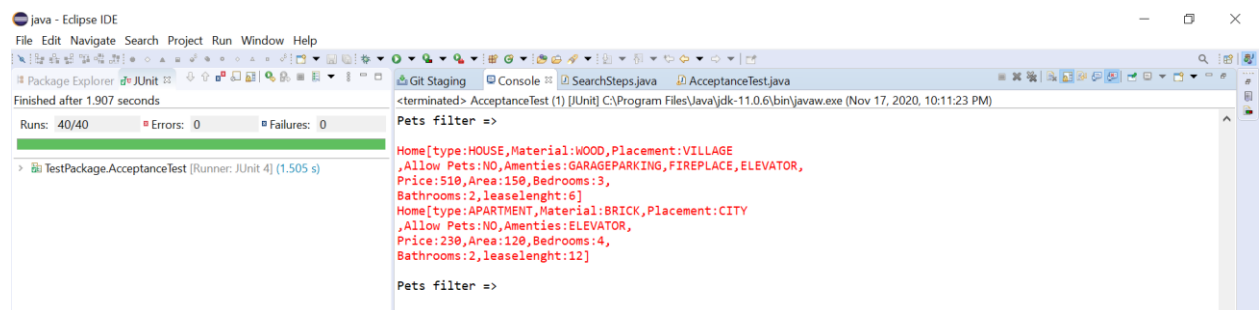
```
78 Scenario Outline: Search about home By Number of bedrooms
79 When I search about home with <bedrooms> Number of bedrooms
80 Then A list of homes that matches the bedrooms specification should be returned and printed on the console
81 And The result should be sent to Email "khq210@gmail.com"
82 Examples:
83 | bedrooms |
84 | 1 |
85 | 2 |
86 | 3 |
87 | 4 |
88 | 5 |
89
```




```
Git Staging Console SearchSteps.java AcceptanceTest.java *Search.feature
89
90 Scenario Outline: Search about home By Number of bathrooms
91 When I search about home with <bathrooms> Number of bathrooms
92 Then A list of homes that matches the bathrooms specification should be returned and printed on the console
93 And The result should be sent to Email "khq210@gmail.com"
94 Examples:
95 | bathrooms |
96 | 1 |
97 | 2 |
98 | 3 |
99
```



```
99
100 Scenario Outline: Search about home By Allow Pets
101 When I search about home By <pets> Allow Pets
102 Then A list of homes that matches the pets specification should be returned and printed on the console
103 And The result should be sent to Email "khq210@gmail.com"
104 Examples:
105 | pets |
106 | "NO" |
107 | "Yes" |
108
```



```

109 Scenario Outline: Search about home By Lease Length
110 When I search about home By <LeaseLength> Lease Length
111 Then A list of homes that matches the leaseLength specification should be returned and printed on the console
112 And The result should be sent to Email "khq210@gmail.com"
113 Examples:
114 | leaseLength |
115 | 6 |
116 | 12 |
117

```

The screenshot shows the Eclipse IDE with the 'Console' tab active. The output displays the results of the 'LeaseLength filter' test. It shows two home objects: one for a house in a village and one for an apartment in a city, both with a lease length of 6. The test passed successfully.

```

LeaseLength filter =>
Home[type:HOUSE,Material:WOOD,Placement:VILLAGE
,Allow Pets:NO,Amenties:GARAGEPARKING,FIREPLACE,ELEVATOR,
Price:510,Area:150,Bedrooms:3,
Bathrooms:2,leaseLength:6]

LeaseLength filter =>
Home[type:APARTMENT,Material:BRICK,Placement:CITY
,Allow Pets:NO,Amenties:ELEVATOR,
Price:230,Area:120,Bedrooms:4,
Bathrooms:2,leaseLength:12]

```

```

118 Scenario Outline: Search about home by amenties
119 When I search about home by <amenties> amenties
120 Then A list of homes that matches the amenties specification should be returned and printed on the console
121 And The result should be sent to Email "khq210@gmail.com"
122 Examples:
123 | amenties |
124 | "GARAGEPARKING" |
125 | "FIREPLACE" |
126 | "ELEVATOR" |
127 | "AirConditioning" |
128 | "Balcony" |
129 | "SwimmingPool" |
130

```

The screenshot shows the Eclipse IDE with the 'Console' tab active. The output displays the results of the 'Amenties filter' test. It shows two home objects: one for a house in a village and one for an apartment in a city, both with a lease length of 6. The test failed because the 'Amenties' field is misspelled in the test data. The 'Failure Trace' tab shows the error message.

```

Amenties filter =>
Home[type:HOUSE,Material:WOOD,Placement:VILLAGE
,Allow Pets:NO,Amenties:GARAGEPARKING,FIREPLACE,ELEVATOR,
Price:510,Area:150,Bedrooms:3,
Bathrooms:2,leaseLength:6]

Amenties filter =>
Home[type:HOUSE,Material:WOOD,Placement:VILLAGE
,Allow Pets:NO,Amenties:GARAGEPARKING,FIREPLACE,ELEVATOR,
Price:510,Area:150,Bedrooms:3,
Bathrooms:2,leaseLength:6]

Amenties filter =>
Home[type:HOUSE,Material:WOOD,Placement:VILLAGE
,Allow Pets:NO,Amenties:GARAGEPARKING,FIREPLACE,ELEVATOR,
Price:510,Area:150,Bedrooms:3,
Bathrooms:2,leaseLength:6]
Home[type:APARTMENT,Material:BRICK,Placement:CITY
,Allow Pets:NO,Amenties:ELEVATOR,
Price:230,Area:120,Bedrooms:4,
Bathrooms:2,leaseLength:12]

Amenties filter =>

Amenties filter =>

Amenties filter =>


```

Failure Trace

```

org.junit.runners.model.TestMethodException:
org.junit.runners.model.TestMethodException:

```

Writable	Insert	130 : 1 : 4550	248M of 287M			
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