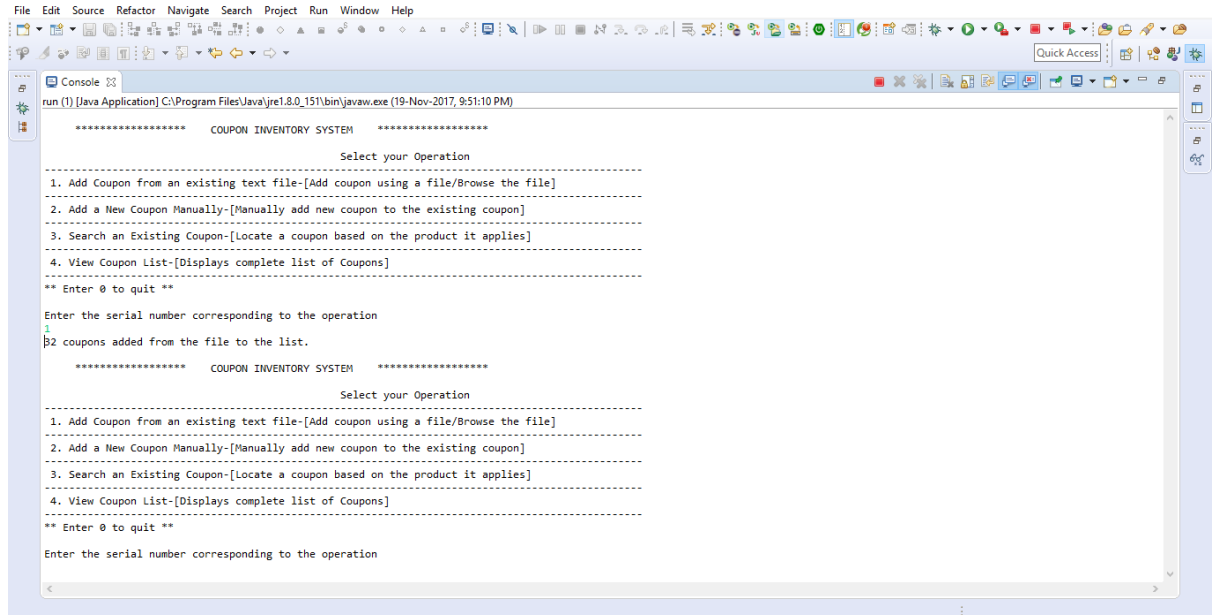


TESTING DOCUMENT

1. **Adding coupons using a file.** I have attached the file named "coupon_project.txt". There are 32 coupons in the file
Expected Output: Coupons must be added to the file with remarks on the console.

Run the program, enter 1 and select the file.



```
File Edit Source Refactor Navigate Search Project Run Window Help
run (1) [Java Application] C:\Program Files\Java\jre1.8.0_151\bin\javaw.exe (19-Nov-2017, 9:51:10 PM)

***** COUPON INVENTORY SYSTEM *****

Select your Operation
-----
1. Add Coupon from an existing text file-[Add coupon using a file/Browse the file]
2. Add a New Coupon Manually-[Manually add new coupon to the existing coupon]
3. Search an Existing Coupon-[Locate a coupon based on the product it applies]
4. View Coupon List-[Displays complete list of Coupons]
-----
** Enter 0 to quit **

Enter the serial number corresponding to the operation
1
32 coupons added from the file to the list.

***** COUPON INVENTORY SYSTEM *****

Select your Operation
-----
1. Add Coupon from an existing text file-[Add coupon using a file/Browse the file]
2. Add a New Coupon Manually-[Manually add new coupon to the existing coupon]
3. Search an Existing Coupon-[Locate a coupon based on the product it applies]
4. View Coupon List-[Displays complete list of Coupons]
-----
** Enter 0 to quit **

Enter the serial number corresponding to the operation
```

From the above image, we can see that 32 coupons are added to the list.

Remarks: The test is successful.

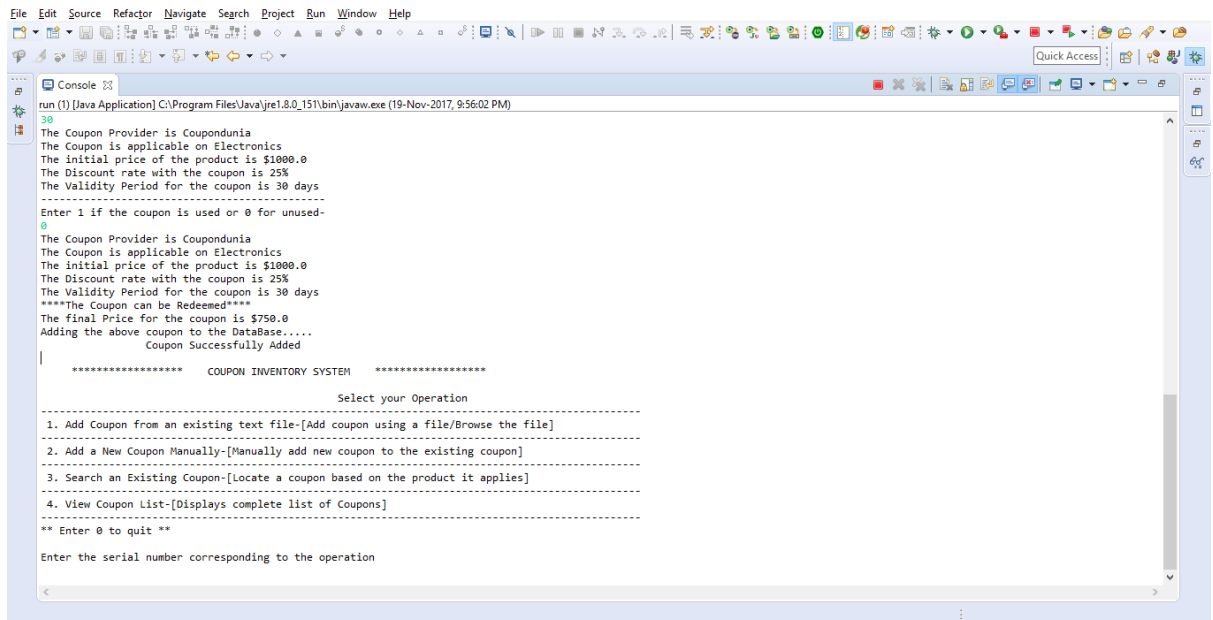
2. **Adding coupons manually-**

We will add coupon manually to the system.

Expected Output: The console should display the coupon added and when viewed, the coupon should be there.

Run the program and enter the coupon manually.

Coupon: Coupondunia, Electronics, 1000\$, 25%, 30 Days, unused.



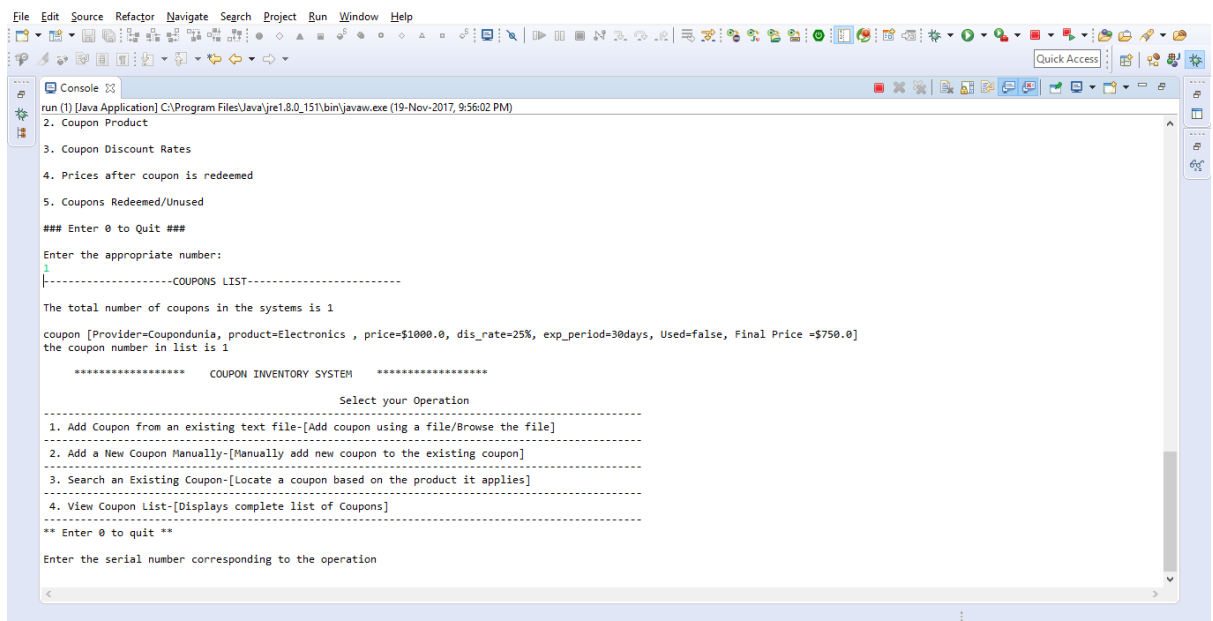
```
File Edit Source Refactor Navigate Search Project Run Window Help
run (1) [Java Application] C:\Program Files\Java\jre1.8.0_151\bin\javaw.exe (19-Nov-2017, 9:56:02 PM)
30
The Coupon Provider is Coupondunia
The Coupon is applicable on Electronics
The initial price of the product is $1000.0
The Discount rate with the coupon is 25%
The Validity Period for the coupon is 30 days
-----
Enter 1 if the coupon is used or 0 for unused-
0
The Coupon Provider is Coupondunia
The Coupon is applicable on Electronics
The initial price of the product is $1000.0
The Discount rate with the coupon is 25%
The Validity Period for the coupon is 30 days
****The Coupon can be Redeemed****
The final Price for the coupon is $750.0
Adding the above coupon to the DataBase.....
Coupon Successfully Added

***** COUPON INVENTORY SYSTEM *****

Select your Operation
-----
1. Add Coupon from an existing text file-[Add coupon using a file/Browse the file]
-----
2. Add a New Coupon Manually-[Manually add new coupon to the existing coupon]
-----
3. Search an Existing Coupon-[Locate a coupon based on the product it applies]
-----
4. View Coupon List-[Displays complete list of Coupons]
-----
** Enter 0 to quit **

Enter the serial number corresponding to the operation
```

From the above image we can see that the coupon is added successfully.



```
File Edit Source Refactor Navigate Search Project Run Window Help
run (1) [Java Application] C:\Program Files\Java\jre1.8.0_151\bin\javaw.exe (19-Nov-2017, 9:56:02 PM)
2. Coupon Product
3. Coupon Discount Rates
4. Prices after coupon is redeemed
5. Coupons Redeemed/Unused
### Enter 0 to Quit ###
Enter the appropriate number:
1
-----COUPONS LIST-----
The total number of coupons in the systems is 1
coupon [Provider=Coupondunia, product=Electronics , price=$1000.0, dis_rate=25%, exp_period=30days, Used=false, Final Price =$750.0]
the coupon number in list is 1

***** COUPON INVENTORY SYSTEM *****

Select your Operation
-----
1. Add Coupon from an existing text file-[Add coupon using a file/Browse the file]
-----
2. Add a New Coupon Manually-[Manually add new coupon to the existing coupon]
-----
3. Search an Existing Coupon-[Locate a coupon based on the product it applies]
-----
4. View Coupon List-[Displays complete list of Coupons]
-----
** Enter 0 to quit **

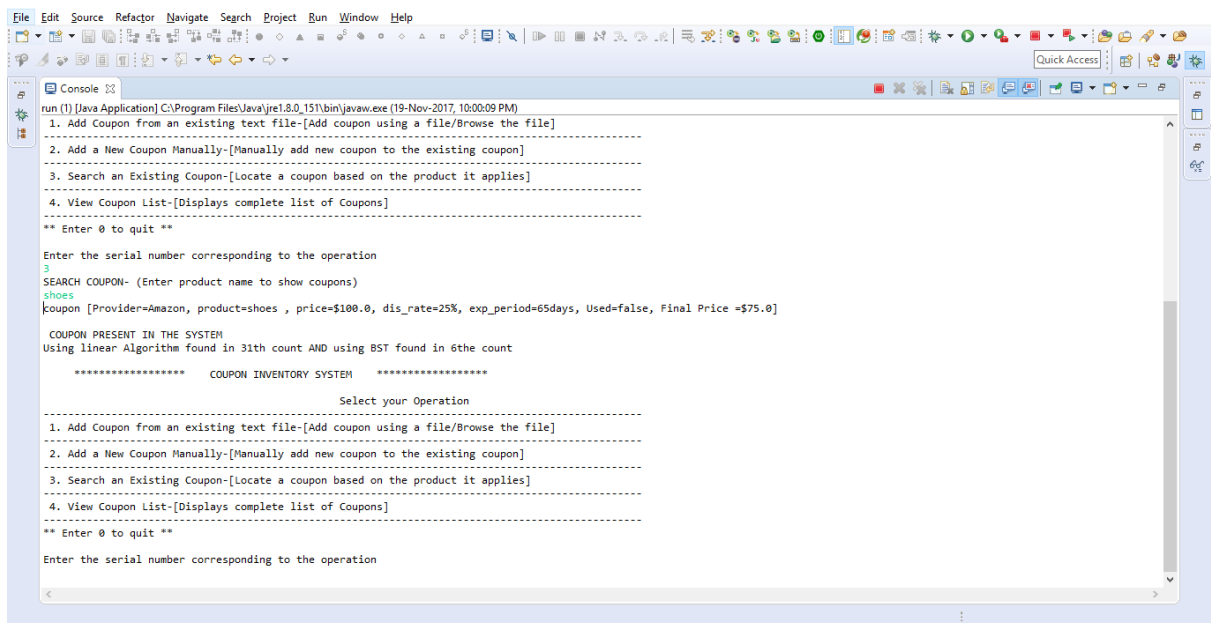
Enter the serial number corresponding to the operation
```

When we view the coupon, it is seen to be added.

Remarks: The test is successful

3. Searching a Coupon:

From the file of coupons that we added, we will search a coupon. Let's consider- shoes
Expected Output- The coupon should be present in the system.



```
File Edit Source Refactor Navigate Search Project Run Window Help
run (1) [Java Application] C:\Program Files\Java\jre1.8.0_151\bin\javaw.exe (19-Nov-2017, 10:00:09 PM)
1. Add Coupon from an existing text file-[Add coupon using a file/Browse the file]
2. Add a New Coupon Manually-[Manually add new coupon to the existing coupon]
3. Search an Existing Coupon-[Locate a coupon based on the product it applies]
4. View Coupon List-[Displays complete list of Coupons]
** Enter 0 to quit **

Enter the serial number corresponding to the operation
3
SEARCH COUPON- (Enter product name to show coupons)
shoes
[oupon [Provider=Amazon, product=shoes , price=$100.0, dis_rate=25%, exp_period=65days, Used=false, Final Price =-$75.0]

COUPON PRESENT IN THE SYSTEM
Using linear Algorithm found in 31th count AND using BST found in 6the count

***** COUPON INVENTORY SYSTEM *****

Select your Operation

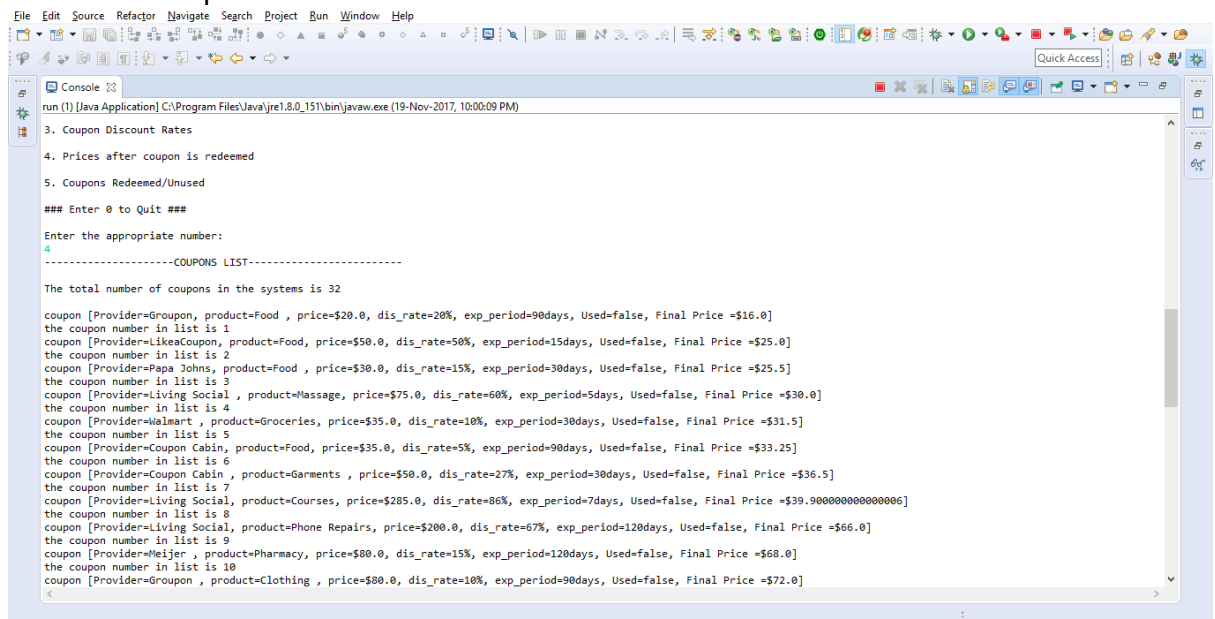
1. Add Coupon from an existing text file-[Add coupon using a file/Browse the file]
2. Add a New Coupon Manually-[Manually add new coupon to the existing coupon]
3. Search an Existing Coupon-[Locate a coupon based on the product it applies]
4. View Coupon List-[Displays complete list of Coupons]
** Enter 0 to quit **

Enter the serial number corresponding to the operation
```

From the above image we can see that the coupon has been located in the system.

Remarks: The test is successful.

4. View coupon in the order of its final price - In this test we will add coupons from the file and view it according to the final price.
Expected Output- The list will be seen on the screen in an ascending order of the final prices.



```
File Edit Source Refactor Navigate Search Project Run Window Help
run (1) [Java Application] C:\Program Files\Java\jre1.8.0_151\bin\javaw.exe (19-Nov-2017, 10:00:09 PM)
3. Coupon Discount Rates
4. Prices after coupon is redeemed
5. Coupons Redeemed/Unused
### Enter 0 to Quit ###

Enter the appropriate number:
4
-----COUPONS LIST-----

The total number of coupons in the systems is 32

coupon [Provider=Groupon, product=Food , price=$20.0, dis_rate=20%, exp_period=90days, Used=false, Final Price =-$16.0]
the coupon number in list is 1
coupon [Provider=LikeaCoupon, product=Food, price=$50.0, dis_rate=50%, exp_period=15days, Used=false, Final Price =-$25.0]
the coupon number in list is 2
coupon [Provider=Papa Johns, product=Food , price=$30.0, dis_rate=15%, exp_period=30days, Used=false, Final Price =-$25.5]
the coupon number in list is 3
coupon [Provider=Living Social , product=Massage, price=$75.0, dis_rate=60%, exp_period=5days, Used=false, Final Price =-$30.0]
the coupon number in list is 4
coupon [Provider=Walmart , product=Groceries, price=$35.0, dis_rate=10%, exp_period=30days, Used=false, Final Price =-$31.5]
the coupon number in list is 5
coupon [Provider=Coupon Cabin, product=Food, price=$35.0, dis_rate=5%, exp_period=90days, Used=false, Final Price =-$33.25]
the coupon number in list is 6
coupon [Provider=Coupon Cabin , product=Garments , price=$50.0, dis_rate=27%, exp_period=30days, Used=false, Final Price =-$36.5]
the coupon number in list is 7
coupon [Provider=Living Social, product=Courses, price=$285.0, dis_rate=86%, exp_period=7days, Used=false, Final Price =-$39.900000000000006]
the coupon number in list is 8
coupon [Provider=Living Social, product=Phone Repairs, price=$200.0, dis_rate=67%, exp_period=120days, Used=false, Final Price =-$66.0]
the coupon number in list is 9
coupon [Provider=Meijer , product=Pharmacy, price=$80.0, dis_rate=15%, exp_period=120days, Used=false, Final Price =-$68.0]
the coupon number in list is 10
coupon [Provider=Groupon , product=Clothing , price=$80.0, dis_rate=10%, exp_period=90days, Used=false, Final Price =-$72.0]
```

```
run (1) [Java Application] C:\Program Files\Java\jre1.8.0_151\bin\javaw.exe (19-Nov-2017, 10:00:09 PM)
the coupon number in list is 23
coupon [Provider=BestBuy, product=Electronics , price=$150.0, dis_rate=10%, exp_period=5days, Used=false, Final Price =$135.0]
the coupon number in list is 24
coupon [Provider=Ebay , product=Electronics , price=$180.0, dis_rate=10%, exp_period=20days, Used=false, Final Price =$162.0]
the coupon number in list is 25
coupon [Provider=Ikea , product=Furniture, price=$200.0, dis_rate=15%, exp_period=60days, Used=false, Final Price =$170.0]
the coupon number in list is 26
coupon [Provider=Groupon, product=Baby Products, price=$200.0, dis_rate=10%, exp_period=90days, Used=false, Final Price =$180.0]
the coupon number in list is 27
coupon [Provider=LivingSocial, product=Hotels, price=$350.0, dis_rate=20%, exp_period=30days, Used=false, Final Price =$280.0]
the coupon number in list is 28
coupon [Provider=Coupon Cabin, product=Furniture, price=$320.0, dis_rate=6%, exp_period=25days, Used=false, Final Price =$294.4]
the coupon number in list is 29
coupon [Provider=Coupon Dunia, product=Electronics , price=$350.0, dis_rate=10%, exp_period=30days, Used=false, Final Price =$315.0]
the coupon number in list is 30
coupon [Provider=Apple, product=Iphones, price=$800.0, dis_rate=10%, exp_period=7days, Used=false, Final Price =$720.0]
the coupon number in list is 31
coupon [Provider=Coupon Cabin, product=Apartments , price=$1500.0, dis_rate=20%, exp_period=30days, Used=false, Final Price =$1200.0]
the coupon number in list is 32

***** COUPON INVENTORY SYSTEM *****

Select your Operation
-----
1. Add Coupon from an existing text file-[Add coupon using a file/Browse the file]
-----
2. Add a New Coupon Manually-[Manually add new coupon to the existing coupon]
-----
3. Search an Existing Coupon-[Locate a coupon based on the product it applies]
-----
4. View Coupon List-[Displays complete list of Coupons]
-----
** Enter 0 to quit **

Enter the serial number corresponding to the operation
|
```

From the above file we can see that the list is viewed in ascending order of final price.

Remarks: The test is successful.

5. Search a coupon that is not present

Add coupon using file and search an unknown coupon

Expected Output- The coupon is not present displayed on the console

```
run (1) [Java Application] C:\Program Files\Java\jre1.8.0_151\bin\javaw.exe (19-Nov-2017, 10:09:33 PM)
***** COUPON INVENTORY SYSTEM *****

Select your Operation
-----
1. Add Coupon from an existing text file-[Add coupon using a file/Browse the file]
-----
2. Add a New Coupon Manually-[Manually add new coupon to the existing coupon]
-----
3. Search an Existing Coupon-[Locate a coupon based on the product it applies]
-----
4. View Coupon List-[Displays complete list of Coupons]
-----
** Enter 0 to quit **

Enter the serial number corresponding to the operation
3
SEARCH COUPON- (Enter product name to show coupons)
tools
| #### COUPON NOT PRESENT IN SYSTEM ###

***** COUPON INVENTORY SYSTEM *****

Select your Operation
-----
1. Add Coupon from an existing text file-[Add coupon using a file/Browse the file]
-----
2. Add a New Coupon Manually-[Manually add new coupon to the existing coupon]
-----
3. Search an Existing Coupon-[Locate a coupon based on the product it applies]
-----
4. View Coupon List-[Displays complete list of Coupons]
-----
** Enter 0 to quit **

Enter the serial number corresponding to the operation
|
```

By entering “tools”, the product whose coupon is not added to the list, we see that it outputs that the coupon is not present.

Remarks- The test is successful.