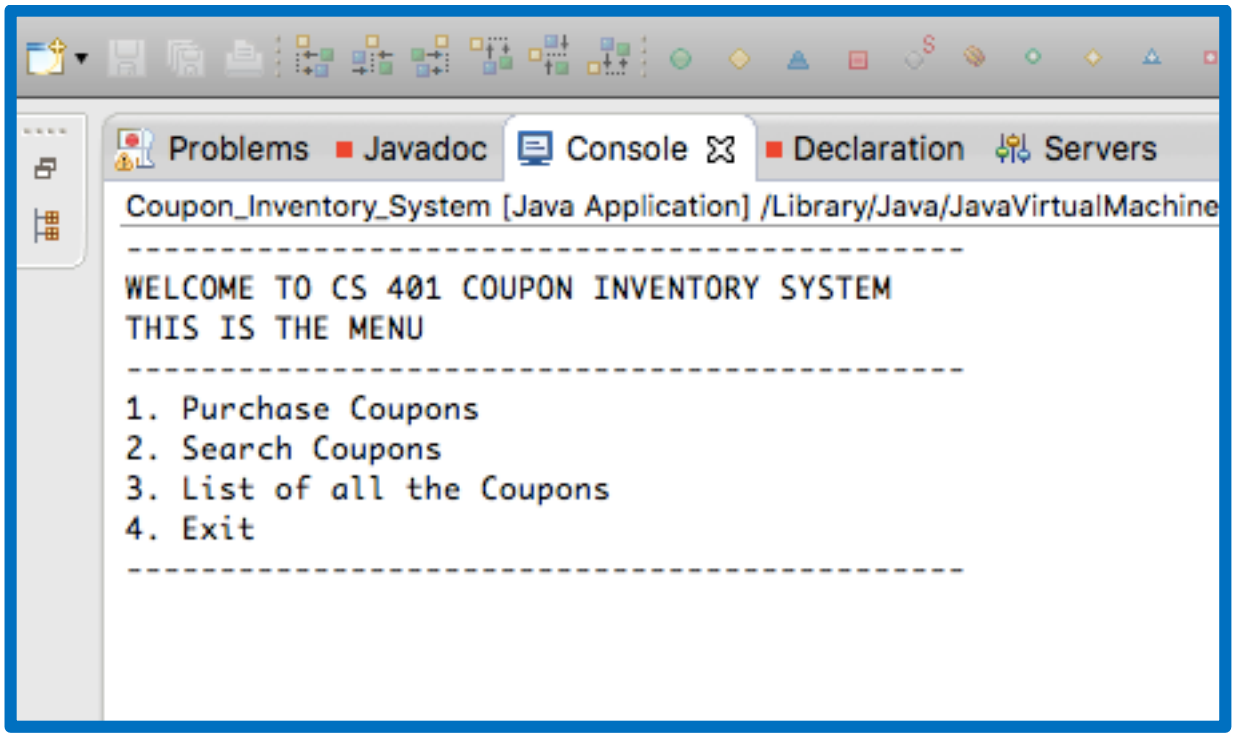
2017

SCREENSHOTS

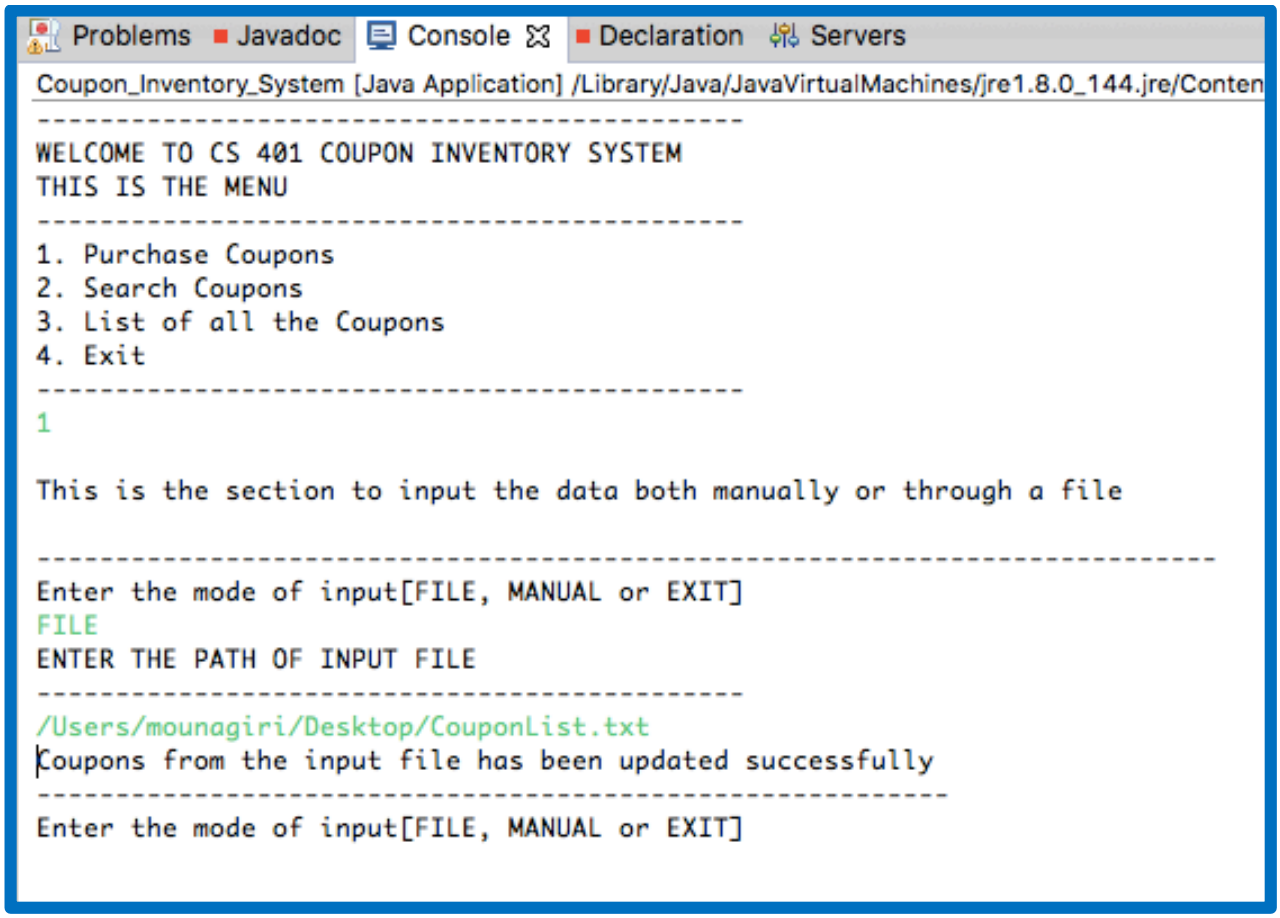
SCREENSHOTS

MOUNA GIRI

1. When the program is executed, the menu is displayed



2. Under Purchase Coupons, adding the coupons through the input file by providing the path name. It displays a message after the coupons are added.



3. Under Purchase Coupons, adding the coupons through manual method by entering the coupon parameter. It displays a message after the coupons are added.

```
--------------------------------------------------------------------------------
Enter the mode of input[FILE, MANUAL or EXIT]
FILE
ENTER THE PATH OF INPUT FILE
-------------------------------------------
/Users/mounagiri/Desktop/CouponList.txt
Coupons from the input file has been updated successfully
-----------------------------------------------------------
Enter the mode of input[FILE, MANUAL or EXIT]
MANUAL
Enter NEXT for adding new coupon and EXIT to stop adding manually
NEXT
-------------------------------------------
Enter the values of the coupons
Enter the input for Coupon provider
Grioupon
Enter the input for the product name
Movie
Enter the input for price
40
Enter the input for discount
20
Enter the input for expiration days
30
Enter the status of the coupon
unused
The new coupon has been added successfully
-------------------------------------------
Enter NEXT for adding new coupon and EXIT to stop adding manually
```

4. Exiting the manual entry mode

```
NEXT
-------------------------------------------
Enter the values of the coupons
Enter the input for Coupon provider
Grioupon
Enter the input for the product name
Movie
Enter the input for price
40
Enter the input for discount
20
Enter the input for expiration days
30
Enter the status of the coupon
unused
The new coupon has been added successfully
-------------------------------------------
Enter NEXT for adding new coupon and EXIT to stop adding manually
EXIT
Enter the mode of input[FILE, MANUAL or EXIT]
```

5. Exiting the purchase coupon module

```
unused
The new coupon has been added successfully
-------------------------------------------
Enter NEXT for adding new coupon and EXIT to stop adding manually
EXIT
Enter the mode of input[FILE, MANUAL or EXIT]
EXIT
-------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
-------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
-------------------------------------------
```

6. When we type 2 and in the search coupon – first we enter the Coupon provider name and second time we type Product name. Both the results are there in the below screenshots

7. When the coupon is not found in the list.

```
-------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
-------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
-------------------------------------------
2
This is the section to search for the coupon(s)
-------------------------------------------
ENTER THE DETAIL OF THE COUPON [LIST ANY PARAMETER]
chocolate
NO COUPON FOUND
THE SEARCH COUNT BY LINEAR SEARCH ALGORITHM IS : 19
NO COUPON COUNT
The SEARCH COUNT IN BINARY SEARCH IS4
-------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
-------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
-------------------------------------------
```

8. Type 3 for Listing the coupons in ascending order.
   LIST ORDER BASED ON COUPON PROVIDER.

```
----------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
----------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
----------------------------------------------
3
This is the section to list all the coupons based on user's choice
----------------------------------------------
ENTER THE PARAMETER OF COUPON AND IT WILL LISTED ACCORDINGLY [provider, price, final_ price, discount, expiration, product or status]
provider
1. Coupon [coupon_provider=ABCo, product_name=UCB, price=100.0, final_price=-210.0, discount=310, expiration_date=70, status_coupon=Unused]
2. Coupon [coupon_provider=ABCo, product_name=Zara, price=1700.0, final_price=1190.0, discount=30, expiration_date=100, status_coupon=Unused]
3. Coupon [coupon_provider=BestDeal, product_name=Forever21, price=1050.0, final_price=945.0, discount=10, expiration_date=50, status_coupon=Used]
4. Coupon [coupon_provider=BestDeal, product_name=Fashion, price=105.0, final_price=52.5, discount=50, expiration_date=50, status_coupon=Used]
5. Coupon [coupon_provider=BestDeal, product_name=Addidas, price=600.0, final_price=480.0, discount=20, expiration_date=40, status_coupon=Unused]
6. Coupon [coupon_provider=DealDaddy, product_name=Puma, price=1050.0, final_price=105.0, discount=90, expiration_date=100, status_coupon=Unused]
7. Coupon [coupon_provider=DealDaddy, product_name=Painting, price=16.0, final_price=9.6, discount=40, expiration_date=100, status_coupon=Unused]
8. Coupon [coupon_provider=DealDaddy, product_name=Nike, price=1070.0, final_price=321.0, discount=70, expiration_date=30, status_coupon=Unused]
9. Coupon [coupon_provider=Grioupon, product_name=Movie, price=40.0, final_price=32.0, discount=20, expiration_date=30, status_coupon=unused]
10. Coupon [coupon_provider=Groupon, product_name=Ballet, price=700.0, final_price=630.0, discount=10, expiration_date=100, status_coupon=Unused]
11. Coupon [coupon_provider=Groupon, product_name=Urban, price=90.0, final_price=54.0, discount=40, expiration_date=50, status_coupon=Unused]
12. Coupon [coupon_provider=Groupon, product_name=Converse, price=330.0, final_price=198.0, discount=40, expiration_date=50, status_coupon=Unused]
13. Coupon [coupon_provider=Groupon, product_name=SkyDiving, price=1040.0, final_price=936.0, discount=10, expiration_date=100, status_coupon=Unused]
14. Coupon [coupon_provider=Groupon, product_name=Movie, price=1020.0, final_price=918.0, discount=10, expiration_date=15, status_coupon=Used]
15. Coupon [coupon_provider=LivingMax, product_name=Icecream, price=1600.0, final_price=960.0, discount=40, expiration_date=90, status_coupon=Used]
16. Coupon [coupon_provider=LivingMax, product_name=Skating, price=65.0, final_price=32.5, discount=50, expiration_date=90, status_coupon=Used]
17. Coupon [coupon_provider=LivingMax, product_name=Express, price=1500.0, final_price=1350.0, discount=10, expiration_date=100, status_coupon=Used]
18. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=154.0, final_price=46.2, discount=70, expiration_date=100, status_coupon=Unused]
19. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=1200.0, final_price=360.0, discount=70, expiration_date=100, status_coupon=Unused]
20. Coupon [coupon_provider=LivingSocial, product_name=Restaurant, price=1030.0, final_price=206.0, discount=80, expiration_date=10, status_coupon=Unused]
----------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
----------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
----------------------------------------------
```

9. LIST ORDER BASED ON COUPON PRODUCT NAME

```
---------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
---------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
---------------------------------------------
3
This is the section to list all the coupons based on user's choice
---------------------------------------------
ENTER THE PARAMETER OF COUPON AND IT WILL LISTED ACCORDINGLY [provider, price, final_ price, discount, expiration, product or status]
product
1. Coupon [coupon_provider=BestDeal, product_name=Addidas, price=600.0, final_price=480.0, discount=20, expiration_date=40, status_coupon=Unused]
2. Coupon [coupon_provider=Groupon, product_name=Ballet, price=700.0, final_price=630.0, discount=10, expiration_date=100, status_coupon=Unused]
3. Coupon [coupon_provider=Groupon, product_name=Converse, price=330.0, final_price=198.0, discount=40, expiration_date=50, status_coupon=Unused]
4. Coupon [coupon_provider=LivingMax, product_name=Express, price=1500.0, final_price=1350.0, discount=10, expiration_date=100, status_coupon=Used]
5. Coupon [coupon_provider=BestDeal, product_name=Fashion, price=105.0, final_price=52.5, discount=50, expiration_date=50, status_coupon=Used]
6. Coupon [coupon_provider=BestDeal, product_name=Forever21, price=1050.0, final_price=945.0, discount=10, expiration_date=50, status_coupon=Used]
7. Coupon [coupon_provider=LivingMax, product_name=Icecream, price=1600.0, final_price=960.0, discount=40, expiration_date=90, status_coupon=Used]
8. Coupon [coupon_provider=Grouipon, product_name=Movie, price=40.0, final_price=32.0, discount=20, expiration_date=30, status_coupon=unused]
9. Coupon [coupon_provider=Groupon, product_name=Movie, price=1020.0, final_price=918.0, discount=10, expiration_date=15, status_coupon=Used]
10. Coupon [coupon_provider=DealDaddy, product_name=Nike, price=1070.0, final_price=321.0, discount=70, expiration_date=30, status_coupon=Unused]
11. Coupon [coupon_provider=DealDaddy, product_name=Painting, price=16.0, final_price=9.6, discount=40, expiration_date=100, status_coupon=Unused]
12. Coupon [coupon_provider=DealDaddy, product_name=Puma, price=1050.0, final_price=105.0, discount=90, expiration_date=100, status_coupon=Unused]
13. Coupon [coupon_provider=LivingSocial, product_name=Restaurant, price=1030.0, final_price=206.0, discount=80, expiration_date=10, status_coupon=Unused]
14. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=154.0, final_price=46.2, discount=70, expiration_date=100, status_coupon=Unused]
15. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=1200.0, final_price=360.0, discount=70, expiration_date=100, status_coupon=Unused]
16. Coupon [coupon_provider=LivingMax, product_name=Skating, price=65.0, final_price=32.5, discount=50, expiration_date=90, status_coupon=Used]
17. Coupon [coupon_provider=Groupon, product_name=SkyDiving, price=1040.0, final_price=936.0, discount=10, expiration_date=100, status_coupon=Unused]
18. Coupon [coupon_provider=ABCo, product_name=UCB, price=100.0, final_price=-210.0, discount=310, expiration_date=70, status_coupon=Unused]
19. Coupon [coupon_provider=Groupon, product_name=Urban, price=90.0, final_price=54.0, discount=40, expiration_date=50, status_coupon=Unused]
20. Coupon [coupon_provider=ABCo, product_name=Zara, price=1700.0, final_price=1190.0, discount=30, expiration_date=100, status_coupon=Unused]
---------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
---------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
---------------------------------------------
```

10.LIST ORDER BASED ON STATUS

```
---------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
---------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
---------------------------------------------
3
This is the section to list all the coupons based on user's choice
---------------------------------------------
ENTER THE PARAMETER OF COUPON AND IT WILL LISTED ACCORDINGLY [provider, price, final_ price, discount, expiration, product or status]
status
1. Coupon [coupon_provider=DealDaddy, product_name=Nike, price=1070.0, final_price=321.0, discount=70, expiration_date=30, status_coupon=Unused]
2. Coupon [coupon_provider=BestDeal, product_name=Addidas, price=600.0, final_price=480.0, discount=20, expiration_date=40, status_coupon=Unused]
3. Coupon [coupon_provider=ABCo, product_name=UCB, price=100.0, final_price=90.0, discount=10, expiration_date=70, status_coupon=Unused]
4. Coupon [coupon_provider=Groupon, product_name=SkyDiving, price=1040.0, final_price=936.0, discount=10, expiration_date=100, status_coupon=Unused]
5. Coupon [coupon_provider=DealDaddy, product_name=Puma, price=1050.0, final_price=105.0, discount=90, expiration_date=100, status_coupon=Unused]
6. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=1200.0, final_price=360.0, discount=70, expiration_date=100, status_coupon=Unused]
7. Coupon [coupon_provider=Groupon, product_name=Ballet, price=700.0, final_price=630.0, discount=10, expiration_date=100, status_coupon=Unused]
8. Coupon [coupon_provider=DealDaddy, product_name=Painting, price=16.0, final_price=9.6, discount=40, expiration_date=100, status_coupon=Unused]
9. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=154.0, final_price=46.2, discount=70, expiration_date=100, status_coupon=Unused]
10. Coupon [coupon_provider=Groupon, product_name=Movie, price=40.0, final_price=32.0, discount=20, expiration_date=30, status_coupon=Unused]
11. Coupon [coupon_provider=Groupon, product_name=Urban, price=90.0, final_price=54.0, discount=40, expiration_date=50, status_coupon=Unused]
12. Coupon [coupon_provider=Groupon, product_name=Converse, price=330.0, final_price=198.0, discount=40, expiration_date=50, status_coupon=Unused]
13. Coupon [coupon_provider=ABCo, product_name=Zara, price=1700.0, final_price=1190.0, discount=30, expiration_date=100, status_coupon=Unused]
14. Coupon [coupon_provider=LivingSocial, product_name=Restaurant, price=1030.0, final_price=206.0, discount=80, expiration_date=10, status_coupon=Unused]
15. Coupon [coupon_provider=LivingMax, product_name=Skating, price=65.0, final_price=32.5, discount=50, expiration_date=90, status_coupon=Used]
16. Coupon [coupon_provider=LivingMax, product_name=Icecream, price=1600.0, final_price=960.0, discount=40, expiration_date=90, status_coupon=Used]
17. Coupon [coupon_provider=BestDeal, product_name=Fashion, price=105.0, final_price=52.5, discount=50, expiration_date=50, status_coupon=Used]
18. Coupon [coupon_provider=BestDeal, product_name=Forever21, price=1050.0, final_price=945.0, discount=10, expiration_date=50, status_coupon=Used]
19. Coupon [coupon_provider=LivingMax, product_name=Express, price=1500.0, final_price=1350.0, discount=10, expiration_date=100, status_coupon=Used]
20. Coupon [coupon_provider=Groupon, product_name=Movie, price=1020.0, final_price=918.0, discount=10, expiration_date=15, status_coupon=Used]
---------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
---------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
---------------------------------------------
```

11.LIST ORDER BASED ON EXPIRATION DAYS

```
---------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
---------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
---------------------------------------------
3
This is the section to list all the coupons based on user's choice
---------------------------------------------
ENTER THE PARAMETER OF COUPON AND IT WILL LISTED ACCORDINGLY [provider, price, final_ price, discount, expiration, product or status]
expiration
1. Coupon [coupon_provider=LivingSocial, product_name=Restaurant, price=1030.0, final_price=206.0, discount=80, expiration_date=10, status_coupon=Unused]
2. Coupon [coupon_provider=Groupon, product_name=Movie, price=1020.0, final_price=918.0, discount=10, expiration_date=15, status_coupon=Used]
3. Coupon [coupon_provider=Grouipon, product_name=Movie, price=40.0, final_price=32.0, discount=20, expiration_date=30, status_coupon=unused]
4. Coupon [coupon_provider=DealDaddy, product_name=Nike, price=1070.0, final_price=321.0, discount=70, expiration_date=30, status_coupon=Unused]
5. Coupon [coupon_provider=BestDeal, product_name=Addidas, price=600.0, final_price=480.0, discount=20, expiration_date=40, status_coupon=Unused]
6. Coupon [coupon_provider=Groupon, product_name=Urban, price=90.0, final_price=54.0, discount=40, expiration_date=50, status_coupon=Unused]
7. Coupon [coupon_provider=BestDeal, product_name=Fashion, price=105.0, final_price=52.5, discount=50, expiration_date=50, status_coupon=Used]
8. Coupon [coupon_provider=BestDeal, product_name=Forever21, price=1050.0, final_price=945.0, discount=10, expiration_date=50, status_coupon=Used]
9. Coupon [coupon_provider=Groupon, product_name=Converse, price=330.0, final_price=198.0, discount=40, expiration_date=50, status_coupon=Unused]
10. Coupon [coupon_provider=ABCo, product_name=UCB, price=100.0, final_price=-210.0, discount=310, expiration_date=70, status_coupon=Unused]
11. Coupon [coupon_provider=LivingMax, product_name=Skating, price=65.0, final_price=32.5, discount=50, expiration_date=90, status_coupon=Used]
12. Coupon [coupon_provider=LivingMax, product_name=Icecream, price=1600.0, final_price=960.0, discount=40, expiration_date=90, status_coupon=Used]
13. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=1200.0, final_price=360.0, discount=70, expiration_date=100, status_coupon=Unused]
14. Coupon [coupon_provider=Groupon, product_name=Ballet, price=700.0, final_price=630.0, discount=10, expiration_date=100, status_coupon=Unused]
15. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=154.0, final_price=46.2, discount=70, expiration_date=100, status_coupon=Unused]
16. Coupon [coupon_provider=DealDaddy, product_name=Painting, price=16.0, final_price=9.6, discount=40, expiration_date=100, status_coupon=Unused]
17. Coupon [coupon_provider=DealDaddy, product_name=Puma, price=1050.0, final_price=105.0, discount=90, expiration_date=100, status_coupon=Unused]
18. Coupon [coupon_provider=Groupon, product_name=SkyDiving, price=1040.0, final_price=936.0, discount=10, expiration_date=100, status_coupon=Unused]
19. Coupon [coupon_provider=LivingMax, product_name=Express, price=1500.0, final_price=1350.0, discount=10, expiration_date=100, status_coupon=Used]
20. Coupon [coupon_provider=ABCo, product_name=Zara, price=1700.0, final_price=1190.0, discount=30, expiration_date=100, status_coupon=Unused]
---------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
---------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
---------------------------------------------
```

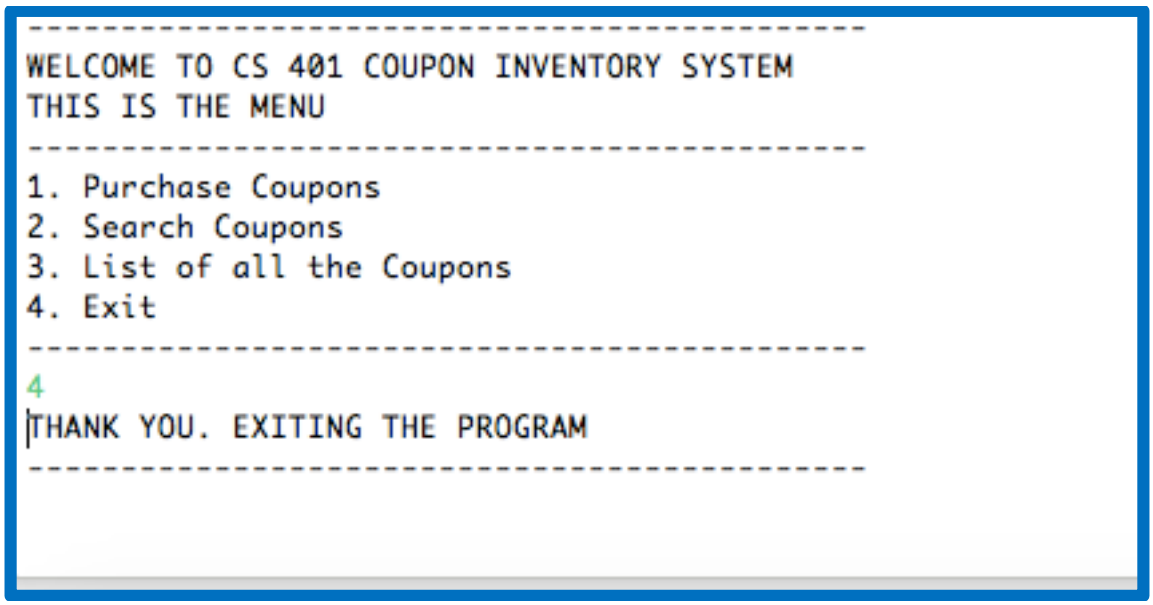
12.LIST ORDER BASED ON COUPON PRICE

```
------------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
------------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
------------------------------------------------
3
This is the section to list all the coupons based on user's choice
------------------------------------------------
ENTER THE PARAMETER OF COUPON AND IT WILL LISTED ACCORDINGLY [provider, price, final_ price, discount, expiration, product or status]
price
1. Coupon [coupon_provider=DealDaddy, product_name=Painting, price=16.0, final_price=9.6, discount=40, expiration_date=100, status_coupon=Unused]
2. Coupon [coupon_provider=Grioupon, product_name=Movie, price=40.0, final_price=32.0, discount=20, expiration_date=30, status_coupon=unused]
3. Coupon [coupon_provider=LivingMax, product_name=Skating, price=65.0, final_price=32.5, discount=50, expiration_date=90, status_coupon=Used]
4. Coupon [coupon_provider=Groupon, product_name=Urban, price=90.0, final_price=54.0, discount=40, expiration_date=50, status_coupon=Unused]
5. Coupon [coupon_provider=ABCo, product_name=UCB, price=100.0, final_price=-210.0, discount=310, expiration_date=70, status_coupon=Unused]
6. Coupon [coupon_provider=BestDeal, product_name=Fashion, price=105.0, final_price=52.5, discount=50, expiration_date=50, status_coupon=Used]
7. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=154.0, final_price=46.2, discount=70, expiration_date=100, status_coupon=Unused]
8. Coupon [coupon_provider=Groupon, product_name=Converse, price=330.0, final_price=198.0, discount=40, expiration_date=50, status_coupon=Unused]
9. Coupon [coupon_provider=BestDeal, product_name=Addidas, price=600.0, final_price=480.0, discount=20, expiration_date=40, status_coupon=Unused]
10. Coupon [coupon_provider=Groupon, product_name=Ballet, price=700.0, final_price=630.0, discount=10, expiration_date=100, status_coupon=Unused]
11. Coupon [coupon_provider=Groupon, product_name=Movie, price=1020.0, final_price=918.0, discount=10, expiration_date=15, status_coupon=Used]
12. Coupon [coupon_provider=LivingSocial, product_name=Restaurant, price=1030.0, final_price=206.0, discount=80, expiration_date=10, status_coupon=Unused]
13. Coupon [coupon_provider=Groupon, product_name=SkyDiving, price=1040.0, final_price=936.0, discount=10, expiration_date=100, status_coupon=Unused]
14. Coupon [coupon_provider=BestDeal, product_name=Forever21, price=1050.0, final_price=945.0, discount=10, expiration_date=50, status_coupon=Used]
15. Coupon [coupon_provider=DealDaddy, product_name=Puma, price=1050.0, final_price=105.0, discount=90, expiration_date=100, status_coupon=Unused]
16. Coupon [coupon_provider=DealDaddy, product_name=Nike, price=1070.0, final_price=321.0, discount=70, expiration_date=30, status_coupon=Unused]
17. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=1200.0, final_price=360.0, discount=70, expiration_date=100, status_coupon=Unused]
18. Coupon [coupon_provider=LivingMax, product_name=Express, price=1500.0, final_price=1350.0, discount=10, expiration_date=100, status_coupon=Used]
19. Coupon [coupon_provider=LivingMax, product_name=Icecream, price=1600.0, final_price=960.0, discount=40, expiration_date=90, status_coupon=Used]
20. Coupon [coupon_provider=ABCo, product_name=Zara, price=1700.0, final_price=1190.0, discount=30, expiration_date=100, status_coupon=Unused]
------------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
------------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
------------------------------------------------
```

13.LIST ORDER BASED ON COUPON FINAL PRICE

```
------------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
------------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
------------------------------------------------
3
This is the section to list all the coupons based on user's choice
------------------------------------------------
ENTER THE PARAMETER OF COUPON AND IT WILL LISTED ACCORDINGLY [provider, price, final_ price, discount, expiration, product or status]
final_price
1. Coupon [coupon_provider=DealDaddy, product_name=Painting, price=16.0, final_price=9.6, discount=40, expiration_date=100, status_coupon=Unused]
2. Coupon [coupon_provider=Groupon, product_name=Movie, price=40.0, final_price=32.0, discount=20, expiration_date=30, status_coupon=Unused]
3. Coupon [coupon_provider=LivingMax, product_name=Skating, price=65.0, final_price=32.5, discount=50, expiration_date=90, status_coupon=Used]
4. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=154.0, final_price=46.2, discount=70, expiration_date=100, status_coupon=Unused]
5. Coupon [coupon_provider=BestDeal, product_name=Fashion, price=105.0, final_price=52.5, discount=50, expiration_date=50, status_coupon=Used]
6. Coupon [coupon_provider=Groupon, product_name=Urban, price=90.0, final_price=54.0, discount=40, expiration_date=50, status_coupon=Unused]
7. Coupon [coupon_provider=ABCo, product_name=UCB, price=100.0, final_price=90.0, discount=10, expiration_date=70, status_coupon=Unused]
8. Coupon [coupon_provider=DealDaddy, product_name=Puma, price=1050.0, final_price=105.0, discount=90, expiration_date=100, status_coupon=Unused]
9. Coupon [coupon_provider=Groupon, product_name=Converse, price=330.0, final_price=198.0, discount=40, expiration_date=50, status_coupon=Unused]
10. Coupon [coupon_provider=LivingSocial, product_name=Restaurant, price=1030.0, final_price=206.0, discount=80, expiration_date=10, status_coupon=Unused]
11. Coupon [coupon_provider=DealDaddy, product_name=Nike, price=1070.0, final_price=321.0, discount=70, expiration_date=30, status_coupon=Unused]
12. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=1200.0, final_price=360.0, discount=70, expiration_date=100, status_coupon=Unused]
13. Coupon [coupon_provider=BestDeal, product_name=Addidas, price=600.0, final_price=480.0, discount=20, expiration_date=40, status_coupon=Unused]
14. Coupon [coupon_provider=Groupon, product_name=Ballet, price=700.0, final_price=630.0, discount=10, expiration_date=100, status_coupon=Unused]
15. Coupon [coupon_provider=Groupon, product_name=Movie, price=1020.0, final_price=918.0, discount=10, expiration_date=15, status_coupon=Used]
16. Coupon [coupon_provider=Groupon, product_name=SkyDiving, price=1040.0, final_price=936.0, discount=10, expiration_date=100, status_coupon=Unused]
17. Coupon [coupon_provider=BestDeal, product_name=Forever21, price=1050.0, final_price=945.0, discount=10, expiration_date=50, status_coupon=Used]
18. Coupon [coupon_provider=LivingMax, product_name=Icecream, price=1600.0, final_price=960.0, discount=40, expiration_date=90, status_coupon=Used]
19. Coupon [coupon_provider=ABCo, product_name=Zara, price=1700.0, final_price=1190.0, discount=30, expiration_date=100, status_coupon=Unused]
20. Coupon [coupon_provider=LivingMax, product_name=Express, price=1500.0, final_price=1350.0, discount=10, expiration_date=100, status_coupon=Used]
------------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
------------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
------------------------------------------------
```

14.LIST ORDER BASED ON COUPON DISCOUNT

```
Coupon_Inventory_System [Java Application] /Library/Java/JavaVirtualMachines/jre1.8.0_144.jre/Contents/Home/bin/java (Nov 19, 2017 2:17:19 PM)
------------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
------------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
------------------------------------------------
3
This is the section to list all the coupons based on user's choice
------------------------------------------------
ENTER THE PARAMETER OF COUPON AND IT WILL LISTED ACCORDINGLY [provider, price, final_ price, discount, expiration, product or status]
discount
1. Coupon [coupon_provider=LivingMax, product_name=Express, price=1500.0, final_price=1350.0, discount=10, expiration_date=100, status_coupon=Used]
2. Coupon [coupon_provider=BestDeal, product_name=Forever21, price=1050.0, final_price=945.0, discount=10, expiration_date=50, status_coupon=Used]
3. Coupon [coupon_provider=Groupon, product_name=Ballet, price=700.0, final_price=630.0, discount=10, expiration_date=100, status_coupon=Unused]
4. Coupon [coupon_provider=Groupon, product_name=SkyDiving, price=1040.0, final_price=936.0, discount=10, expiration_date=100, status_coupon=Unused]
5. Coupon [coupon_provider=Groupon, product_name=Movie, price=1020.0, final_price=918.0, discount=10, expiration_date=15, status_coupon=Used]
6. Coupon [coupon_provider=Grouipon, product_name=Movie, price=40.0, final_price=32.0, discount=20, expiration_date=30, status_coupon=unused]
7. Coupon [coupon_provider=BestDeal, product_name=Addidas, price=600.0, final_price=480.0, discount=20, expiration_date=40, status_coupon=Unused]
8. Coupon [coupon_provider=ABCo, product_name=Zara, price=1700.0, final_price=1190.0, discount=30, expiration_date=100, status_coupon=Unused]
9. Coupon [coupon_provider=DealDaddy, product_name=Painting, price=16.0, final_price=9.6, discount=40, expiration_date=100, status_coupon=Unused]
10. Coupon [coupon_provider=Groupon, product_name=Urban, price=90.0, final_price=54.0, discount=40, expiration_date=50, status_coupon=Unused]
11. Coupon [coupon_provider=LivingMax, product_name=Icecream, price=1600.0, final_price=960.0, discount=40, expiration_date=90, status_coupon=Used]
12. Coupon [coupon_provider=Groupon, product_name=Converse, price=330.0, final_price=198.0, discount=40, expiration_date=50, status_coupon=Unused]
13. Coupon [coupon_provider=LivingMax, product_name=Skating, price=65.0, final_price=32.5, discount=50, expiration_date=90, status_coupon=Used]
14. Coupon [coupon_provider=BestDeal, product_name=Fashion, price=105.0, final_price=52.5, discount=50, expiration_date=50, status_coupon=Used]
15. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=154.0, final_price=46.2, discount=70, expiration_date=100, status_coupon=Unused]
16. Coupon [coupon_provider=LivingSocial, product_name=RockClimbing, price=1200.0, final_price=360.0, discount=70, expiration_date=100, status_coupon=Unused]
17. Coupon [coupon_provider=DealDaddy, product_name=Nike, price=1070.0, final_price=321.0, discount=70, expiration_date=30, status_coupon=Unused]
18. Coupon [coupon_provider=LivingSocial, product_name=Restaurant, price=1030.0, final_price=206.0, discount=80, expiration_date=10, status_coupon=Unused]
19. Coupon [coupon_provider=DealDaddy, product_name=Puma, price=1050.0, final_price=105.0, discount=90, expiration_date=100, status_coupon=Unused]
20. Coupon [coupon_provider=ABCo, product_name=UCB, price=100.0, final_price=-210.0, discount=310, expiration_date=70, status_coupon=Unused]
------------------------------------------------
WELCOME TO CS 401 COUPON INVENTORY SYSTEM
THIS IS THE MENU
------------------------------------------------
1. Purchase Coupons
2. Search Coupons
3. List of all the Coupons
4. Exit
------------------------------------------------
```

15.WHEN YOU TYPE 4 TO EXIT