Lab Program 1:

Develop a Java program that prints all real solutions to the quadratic equation ax2+bx+c=0. Read in a, b, c and use the quadratic formula. If the discriminate b2

-4ac is negative, display a message stating that there are no real solutions.

Once you complete this and get it attested from the faculty incharge, you can try the following programs.

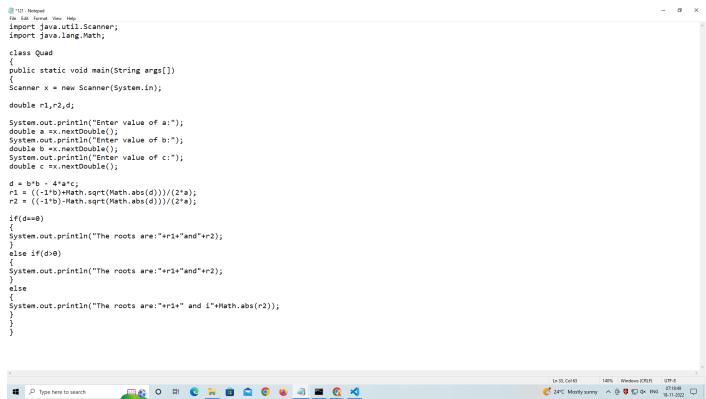
Extra Questions:

- 1. Develop a Java program to create a class Player with variables id, name, scores, no_matches_played with default access specifier. Include the following:
- a. Constructors
- b. appropriate methods that calculates the average scores of the player and displays the same.

Create two player objects and display the player details who has the greater average score

- 2. Develop a Java program to create a class Book with members bookid, booktitle, no_of_pages, year_of_pub, author, publisher and price. Create three objects of book class. Include methods in Book class that do the following:
- a. Accepting the book details
- b. Displaying the book details
- c. Accept the author name and display the book details.
- d. Display the booktitle of the most expensive book
- e. Display the count of the books published in the year 2020.
- f. Display the book details of the book with the least number of pages

SCREEN SHORT:



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C:\Users\bmsce>cd C:\Users\bmsce\Desktop\1BM21CS061
C:\Users\bmsce\Desktop\1BM21CS061>java Quad
Enter value of a:
Enter value of b:
Enter value of c:
The roots are:-1.0and-1.0
C:\Users\bmsce\Desktop\1BM21CS061>java Quad
Enter value of a:
Enter value of b:
Enter value of c:
The roots are:0.4489578808281798 and i1.9489578808281798
C:\Users\bmsce\Desktop\1BM21CS061>java Quad
Enter value of a:
Enter value of b:
Enter value of c:
The roots are:-0.5and-2.0
C:\Users\bmsce\Desktop\1BM21CS061>java Quad
Enter value of a:
Enter value of b:
Enter value of c:
Invalid inputs
C:\Users\bmsce\Desktop\1BM21CS061>_
```