

1. Create a program that reads the length and width of a farmer's field from the user in feet.

Display the area of the field in acres. Hint: There are 43,560 square feet in an acre.

Sample Input 1000 1000

Sample Output 22.95684113865932 acres.

Code:

```
import java.util.Scanner;

public class FieldAreaInAcres {

    private static final double SQUARE_FEET_PER_ACRE = 43560.0;

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter the length of the field in feet: ");

        double length = scanner.nextDouble();

        System.out.print("Enter the width of the field in feet: ");

        double width = scanner.nextDouble();

        double areaInSquareFeet = length * width;

        double areaInAcres = areaInSquareFeet /
SQUARE_FEET_PER_ACRE;

        System.out.println(areaInAcres + " acres");

        scanner.close();
    }
}
```

```
}  
}
```

Output:

```
Microsoft Windows [Version 10.0.19045.4651]  
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C:\Users\admin>set path = C:\Program Files\Java\jdk-22\bin  
  
C:\Users\admin>e:  
  
E:\>cd javacode.java  
  
E:\javacode.java>cd practice.java  
  
E:\javacode.java\practice.java>javac FieldAreaInAcres.java  
  
E:\javacode.java\practice.java>java FieldAreaInAcres  
Enter the length of the field in feet: 1000  
Enter the width of the field in feet: 1000  
22.95684113865932 acres  
  
E:\javacode.java\practice.java>_
```