MAGNITUDE AND ANGLE OF A COMPLEX NUMBER

Problem statement:

We have to build which finds the magnitude and angle of a complex number.

Introduction:

We have to calculate the magnitude and the angle of a complex number so we take two inputs from the user, one real number and the other imaginary number.For magnitude we have to square the both numbers and add them and take the squareroot of it.For the angle we have to take tangent inverse of the imaginary value divided by real value.The standard java function of tan inverse gives the answer in radians so if we want to convert it into degrees we can multiply it by 180 and divide by pi.

Code description:

* EditText is used for taking inputs.We have to take one real input and one imaginary input.TextView is used for output.We have to output the magnitude and angle separately. Magnitude is the square root of the sum of the squares of real and imaginary value.Angle is calculated by tan inverse of imaginary value divided by real value. Tan function gives the angle in radians so if we want to convert the angle to degrees we can multiply it by180 and divide by pi.

Conclusion:  
Programs like these are very useful in real life and we should try to create more realistic projects.

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