Write code to calculate the Mean, Variance and Standard Deviation for the following input (1,3,15,16,19,28) and output each t screen.

**Test Data**

1,3,15,16,19,28

**Source Code**

**import** java.util.\*;

**public** **class** Standard\_Deviation {

 **public** **static** **void** main(String[] args) {

 //

 Scanner in=**new** Scanner(System.***in***);

 **int**[] NumbersArray=**new** **int**[6];

 **double** NumbersTotal = 0.0;

 **double** Mean = 0.0;

 **double** StandardDeviation = 0.0;

 **double** Variance = 0.0;

 **double** SquaresTotal = 0.0;

 **for**(**int** counter=0;counter<6;counter++) {

 System.***out***.println("Enter number " + (counter+1));

 NumbersArray[counter]=in.nextInt();

 NumbersTotal += NumbersArray[counter];

 } // for loop

 Mean=NumbersTotal/6;

 NumbersTotal=0.0;

 **for**(**int** counter=0;counter<6;counter++) {

 SquaresTotal += Math.*pow*((NumbersArray[counter]-Mean), 2);

 }

 Variance = (SquaresTotal / 6);

 StandardDeviation = Math.*sqrt*(Variance);

 System.***out***.println("Mean =" + Mean);

 System.***out***.println("Variance = " + Variance);

 System.***out***.println("Standard Deviatione = " + StandardDeviation);

 in.close();

 }

}

**Output**
