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**  
