



**Gyalpozhing College of Information Technology**  
**BSc in Computer Science, Year II, Semester I**  
**Autumn 2020**

**PLT202: Object Oriented Programming Using Java**

**Lab Exercise 3**

**Release Date: 6-October-2020**



1. Write a Java program to store score of 5 subjects for 6 students. Compute the average score of each student. You need to ask the user to enter all the scores from the keyboard. **[4]**
2. The standard deviation is a measure of the spread of the data with respect to the mean (average). Data with a small standard deviation will be clustered close to the mean and data with a larger standard deviation will be more spread out. To compute the standard deviation, find the mean, find the difference of each item from the mean, square those differences, find the average of those squares, and finally, find the square root of that average which is the standard deviation. For example, given data **10, 20, 30**

Mean	$(10 + 20 + 30)/3 = 20$
Differences	$(10 - 20) = -10, (20 - 20) = 0, (30 - 20) = 10$
Square of differences	100, 0, 100
Average of the squares	$(100 + 0 + 100)/3 = 66.7$
Square root of the average	8.2

Write a Java program to compute the mean and standard deviation of the elements in an array with elements of type **double**. You need to read array size and elements from the user. **[5]**

3. Write a Java program that inputs a list of numbers from command-line and find the sum of the numbers. **[1]**

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