JAVA and Network Programming

<u>Assignment-1</u>

1. Write a program that prompts the user to enter the minutes (e.g., 1 billion), and displays the number of years and days for the minutes. For simplicity, assume a year has **365** days.

Here is a sample run:

Enter the number of minutes: 1000000000
1000000000 minutes is approximately 1902 years and 214 days

2. Write a program that prompts the user to enter two points **(x1, y1)** and **(x2, y2)** and displays their distance between them.

Here is a sample run:

Enter x1 and y1: 1.5 -3.4
Enter x2 and y2: 4 5
The distance between the two points is 8.764131445842194

3. Write a program that displays the following table. Cast floating point numbers into integers.

A	b	pow(a, b)
1	2	1
2	3	8
3	4	81
4	5	1024
5	6	15625

4. Write a program that reads in investment amount, annual interest rate, and number of years, and displays the future investment value using the following formula:

$$futureInvestmentValue = investmentAmount * (1 + monthlyInterestRate)^{numberOfYears*12}$$

For example, if you enter amount **1000**, annual interest rate **3.25%**, and number of years **1**, the future investment value is **1032.98**.

Here is a sample run:
Enter investment amount: 1000.56
Enter annual interest rate in percentage: 4.25
Enter number of years: 1
Accumulated value is $1043.92

5. Write a program to read a Name as a String given in a single line and separate the name into three parts: FirstName, MiddleName, and LastName. Then print the three parts of the name in three different lines.

Here is a sample run:
Enter the Full Name: Sujoy Kumar Paul

First Name: Sujoy
Middle Name: Kumar
Last Name: Paul

Email: hasnat.ru.ice19@gmail.com