Java Programming
CSPC 23
Lab Assignment 1

1. Write a program that reads an integer between 0 and 1000 and multiplies all the digits in the integer. For example, if an integer is 932, the multiplication of all its digits is 54.

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

3. Body Mass Index (BMI) is a measure of health on weight. It can be calculated by taking your weight in kilograms and dividing, by the square of your height in meters. Write a program that prompts the user to enter a weight in pounds and height in inches and displays the BMI. Note one pound is 0.45359237 kilograms and one inch is 0.0254 meters.

4. If you know the balance and the annual percentage interest rate, you can compute the interest on the next monthly payment using the following formula:
   ```
   interest = balance * (annualInterestRate/1200)
   ```
   Write a program that reads the balance and the annual percentage interest rate and displays the interest for the next month.

5. Write an application that reads two integers, determines whether the first is a multiple of the second and prints the result. [Hint: Use the remainder operator.]

6. Write a program that reads an integer and prints it in binary, octal, and hexadecimal.