

- 1) Write a program that asks the user to enter a weight in milligrams and then prints the same amount of weight in Kilograms, grams, and milligrams.

For example, 151515000 milligrams is equivalent to. 151 KG, 515 Grams, and 0 Milligrams(

Print out the result in the format:

51 kilo gram(s), 515 gram (s), and 0 milligram(s).

**Hint: 1KG – 1000 Grams, 1 Gram = 1000 Millimeters**

- 2) At one company, the salary for a full-time employee is \$15,000 per year. It has been announced that the salaries will increase by 10 percent each year for the next 3 years. Write a program with a loop that displays the projected annual salary amount for the next 3 years.

The program should print out the result in the form

In 1 year, the salary will be \$ 16500.00.

In 2 years, the salary will be \$ 18150.00.

In 3 years, the salary will be \$ 19965.00.

**Notice that the first output statement print “year” not ‘years” as the rest of the statements**

- 3) To hide a safe combination a mapping code is used to convert numbers to letters using the following mapping

0	is mapped to	A
1	is mapped to	B
2	is mapped to	C
3	is mapped to	D
4	is mapped to	E
5	is mapped to	F
6	is mapped to	G
7	is mapped to	H
8	is mapped to	I
9	is mapped to	J

Write a program that asks the user to enter a number ( an integer). The program should display the mapped code alphabet according to the mapping given above

For example: 123450 should display BCDEFA

**Your solution should define a function replace(num) which takes a number and return the equivalent Alpha Character that correspond to that number for the mapping chart given above.**

**Your main program should loop on all the numbers of the input and replace each with the corresponding character then print the coded string**