Southern Luzon State University
College Of Engineering
Computer Engineering Department

PROGRAMMING PROJECT

CpE02 - Programming Logic and Design
SY 2021-2022

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TOPIC: COVID-19

TITLE: TALLY OF POSITIVE CASES OF COVID-19

PROBLEM DEFINITION:

To create a program that will tally all the positive cases in a given Municipality. The program will also compute what percentage are positive cases in the total population. I also add a program that will test if the user are positive in COVID-19 given its body temperature and its common symptoms. If the user is confirmed positive the program will add new one from the total positive cases.

PROJECT DESCRIPTION:

The user of the program will enter the whole population and the number of positive cases of COVID-19 in every Brangay of the given Municipality. The program will get the sum of all numbers and will compute its percentage from the whole population. It includes array for repeating elements where the user are going to input some data. In the computation of data the program used method to compute the sum and percentage. It also include if statement if all the population in the Municipaly are all infected or not. For testing if the user want to know if he/she is positive in COVID-19, it also have a loop that will ask the user if he/she want to repeat the program and try to input other data or he/she want to end the program. (*It is just assuming if the user is posible to be included in the combined number of positive cases. In this part, the program just want to show how the numbers to be compute, in and out of the method using array and loop*.)

SOURCE CODE:

```
package GEYMNA;
import java.util.Scanner;
public class FinalProggProject
{
	public static void main(String[] args)
	{
		Scanner input = new Scanner(System.in);

		System.out.print("\n\t\t\t\t\t\tTALLY OF POSITIVE CASES OF COVID-19
IN PATNANUNGAN, QUEZON\n\n");
		System.out.print("Adress (Municipality, Province, ZipCode): ");
		String addr = input.nextLine();
		System.out.print("All the Barangay of Patnanungan are the
following;\n0. Poblcion\t1. Norte\n2. Busdak\t3. Tapol\n4. Katakian\t5. Kilogan\n6.
Sinintan\t7. Guinaygayan\n\n");
```

```
		int brgy;
		int[] positive = new int [8];
		for (brgy=0; brgy<=7; brgy++)
		{
			System.out.print("No. positive cases of COVID-19 in Brgy. " +
brgy + " : ");
			positive[brgy]=input.nextInt();
		}
		System.out.print("\nTotal Population of the Municipality: ");
		int pop = input.nextInt();
		int sum = total (positive);
		double p = percentage (sum, pop);
		total_cases (sum, p, pop );

		int again;
		do
		{
		System.out.print("\n\nDo you want to test your self if you are positive in
COVID-19?\nEnter 1 if YES and 0 if NO: ");
		int test = input.nextInt();
		switch (test)
		{
		case 1:
		System.out.print("\n\n\t\t\t\t\tTEST YOUR SELF IF YOU ARE POSITIVE
IN COVID-19");
		System.out.print("\nYour body temperature: ");
		double tmp = input.nextDouble();

		if (tmp > 35)

		System.out.print("\nThe ff are the symptoms of COVID-19, please enter
\"YES\" or \"NO\"");

		if (tmp <=35)
			System.out.print("YOU ARE IN GOOD CONDITION");
		break;
		case 0:
			System.out.print("\nOK GOBLESS!!");
			break;
		default:
		System.out.println("Wrong input!!!");
		}
		System.out.print("\nTry Again???? (Enter 1 if yes or 2 if no)? ");
		again=input.nextInt();
		}
		while (again==1);

		System.out.print("\n\nSYMPTOMS: ");
		String ll = input.nextLine();
		System.out.print("\n1. Tiredness: ");
		String lll = input.nextLine();
		System.out.print("2. Loss of taste and smell: ");
		String lV = input.nextLine();
		System.out.print("3. Fever: ");
		String V = input.nextLine();
		System.out.print("4. Cough: ");
```

```
                String Vl = input.nextLine();

                System.out.print("Your body temperature: ");
                double tmpp = input.nextDouble();
                if (tmpp>35)
                System.out.print("Because your body temperature is greater than 35
degrees Celcius and you experience some of the symptoms, \nlet assume that THE
TOTAL POSITIVE CASES NOW IS "+(sum+1)+ ". (MAGDASAL KA PALAGI)");
            if (tmpp<35)
                System.out.print("GOOD HEALTH");
        }


        private static int total(int[] positive)
        {
                int answer = 0;
                for (int i = 0; i < positive.length; i++)
                {
                        answer += positive[i];
                }
                return answer;
        }
        private static double percentage(double sum, double pop)
        {
                return ((sum/pop)*100);
        }
        private static void total_cases(int sum, double p, int pop)
        {
                if (pop>sum)
                {
                        System.out.print("\nThe total POSITIVE cases of COVID-19 in
your Municipality is "+sum+ ".\n"+sum+ " is " +p+ " percent of the Total population.");
                }
                else if (pop==sum)
                {
                        System.out.print("\nLET US PRAY FOR YOUR
MUNICIPALITY!!");
                }
        }
}
```

SAMPLE OUTPUT:

```
                                    TALLY OF POSITIVE CASES OF COVID-19 IN PATNANUNGAN, QUEZON

Adress (Municipality, Province, ZipCode): Patananungan, Quezon 4306
All the Barangay of Patnanungan are the following;
0. Poblcion     1. Norte
2. Busdak       3. Tapol
4. Katakian     5. Kilogan
6. Sinintan     7. Guinaygayan

No. positive cases of COVID-19 in Brgy. 0 : 583
No. positive cases of COVID-19 in Brgy. 1 : 34
No. positive cases of COVID-19 in Brgy. 2 : 128
No. positive cases of COVID-19 in Brgy. 3 : 56
No. positive cases of COVID-19 in Brgy. 4 : 35
No. positive cases of COVID-19 in Brgy. 5 : 268
No. positive cases of COVID-19 in Brgy. 6 : 94
No. positive cases of COVID-19 in Brgy. 7 : 23

Total Population of the Municipality: 58673

The total POSITIVE cases of COVID-19 in your Municipality is 1221.
1221 is 2.0810253438549244 percent of the Total population.
```

```
Do you want to test your self if you are positive in COVID-19?
Enter 1 if YES and 0 if NO: 0

OK GOBLESS!!
Try Again???? (Enter 1 if yes or 2 if no)? 1


Do you want to test your self if you are positive in COVID-19?
Enter 1 if YES and 0 if NO: 1


                                    TEST YOUR SELF IF YOU ARE POSITIVE IN COVID-19
Your body temperature: 34
YOU ARE IN GOOD CONDITION
Try Again???? (Enter 1 if yes or 2 if no)? 1


Do you want to test your self if you are positive in COVID-19?
Enter 1 if YES and 0 if NO: 1


                                    TEST YOUR SELF IF YOU ARE POSITIVE IN COVID-19
Your body temperature: 41

The ff are the symptoms of COVID-19, please enter "YES" or "NO"
Try Again???? (Enter 1 if yes or 2 if no)? 2


SYMPTOMS:
1. Tiredness: yes
2. Loss of taste and smell: no
3. Fever: yes
4. Cough: yes
Your body temperature: 41
Because your body temperature is greater than 35 degrees Celcius and you experience some of the symptoms,
let assume that THE TOTAL POSITIVE CASES NOW IS 1222. (MAGDASAL KA PALAGI)
```