**COMPUTER PROGRAMMING 2 (OBJECT ORIENTED)**

**MAIN CASE STUDY**

**ICS 112**

A Case Study

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Problem Description (Main Case Study Problem 3)

Telephone Bill

This problem is about creating a program that calculates and prints the bill for a certain cellular telephone company. There are two types of services offered, the Regular Service and the Premium Service. For the Regular Service, the rate is at Php10.00 and the first 50 minutes is free. However, after the first 50 minutes it will charge Php0.75 per minute. Next we have the Premium Service that has the rate of Php25.00. In Addition, there are two rates included within the premium service. First, for the calls made from 6:00am to 6:00pm, the first 75 minutes is free and charges Php0.20 per minute after 75 minutes. Second, for the calls made from 6:01pm to 5:59am, the first 100 minutes is free and charges Php0.15 per minute after 100 minutes.

The program should then ask the user to input their account number, service code, and the number of minutes the service was used. For the service code, the program should only accept p or P for premium and r or R for regular as an input and output an error when the user inputs a different character and asks the user to enter again. For the Premium service, the user might avail of the services during the day or the night. Therefore, to be able to calculate the bill, the program will ask the number of minutes the service was used during the day and during the night.

Sample Output (Main Case Study Problem 3)

