

POST LAB 2

Before advent of QWERTY keyboards, texts and numbers were placed on the same key. For example 2 has “ABC” if we wanted to write anything starting with ‘A’ we need to type key 2 once. If we wanted to type ‘B’, press key 2 twice and third for typing ‘C’. Below is picture of such keypad.



Many people find it difficult to memorize phone numbers, so they use the correspondence between digits and letters to develop seven-letter words that correspond to their phone number. For example, a person whose telephone number is 686-2377 might use the correspondence indicated in Table 1 to develop seven-letter word "NUMBERS".

In this Post lab you have to Build a windows form application for *Telephone - Number Word Generator*.

1. Implement **TelephoneNumberWordGenerator** class. The class contains :

Sevendigit	private	int
sevenletter	private	List<String>
Seven_LetterWord	public	read-only List<string> property : returns the value of sevenletter data member .
ReadSevenDigit(int seven_digit)	public	Bool : receives one integer value and checks if the passed parameter has seven-digits only and none of the digits are zero or one. If the passed integer is only seven-digits and all digits 2-9, the function sets seven_digit data member to be the value of the passed parameter and return true. Otherwise, the function leaves seven_digit member unchanged and return false.
GenerateSevenLetterWords()	public	Void: this function generates all possible seven-letter words associated to seven_digit's value. Each generation process produces a string that must be added to seven_letter list. This list must be clear, before the generation process start.
ShowListOfWords()	public	String: returns all possible seven_letter words as a single string.

