Q5:

The sample solution counts the total number of letters (26 letters from A to Z) and then using the logic below to indicate the corresponding digit.

2(abc)

3(def)

4(ghi)

5(jkl)

6(mno)

7(pqrs)

8(tuv)

9(wxyz)

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Below is my solution

#include <iostream>

using namespace std;

int main()

{

char letter;

int counter = 0;

cout << "Program to convert letters to their corresponding telephone digits" << endl;

while (cin.get(letter) && counter < 7 ) {

if (letter != ' ' && letter >= 'A' && letter <= 'z') {

counter++; // Only increment the counter for valid characters

if (letter > 'Z') {

letter = (int)letter-32; // Convert lowercase to uppercase if required.

}

if (counter == 4) {

cout << "-"; // Print the hyphen when required

}

switch (letter) {

case 'A':

case 'B':

case 'C':

cout << "2";

break;

case 'D':

case 'E':

case 'F':

cout << "3";

break;

case 'G':

case 'H':

case 'I':

cout << "4";

break;

case 'J':

case 'K':

case 'L':

cout << "5";

break;

case 'M':

case 'N':

case 'O':

cout << "6";

break;

case 'P':

case 'Q':

case 'R':

case 'S':

cout << "7";

break;

case 'T':

case 'U':

case 'V':

cout << "8";

break;

case 'W':

case 'X':

case 'Y':

case 'Z':

cout << "9";

break;

default:

break;

}

}

}

return 0;

}

Program to convert letters to their corresponding telephone digits

GET LOAN

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