**Institute of Computer Technology  
B. Tech. Computer Science and Engineering  
Sub: ESFP – I  
Assignment-2**

**Name:-Dwij desai Roll no.BDA08 class:-B Batch:- BDA**

In a Galaxy of Tilky Way, there was a planet Tarth where the sport of Tompetitive Toding was very popular. According to legends, there lived a setter known for his love with crispy string implementation problems.

* Thef loves 'T''s!! He especially likes words like 'Todechef', 'TCDSAP' and 'Tompetitive Toding'. Since everyone else also liked them, he made a problem on it!! A sentence is a collection of words separated by a single space.
* Given a sentence, with letters being in any case (i.e. uppercase or lowercase) do the following for each word in the sentence- If the first character is not a vowel, replace it with 'T' If the first character of the word is a vowel, append a 'T' in front of the word. Make sure that only the first character of the word is capitalized.
* You will be given multiple sentences in the input, separated by a newline. Do this for each sentence and print the output.

**CODE:-**

*#include* <stdio.h>

*#include* <string.h>

*#include* <stdlib.h>

char tolower1(char a)

{

    int i;

    char Alfa[] = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";

    char alfa[] = "abcdefghijklmnopqrstuvwxyz";

*for* (i = 0; i < 26; i++)

    {

*if* (a == Alfa[i])

        {

            a = alfa[i];

*break*;

        }

    }

*return* a;

}

int vovelcheck(char a)

{

    char vo[5] = "aeiou";

*for* (int i = 0; i < 5; i++)

    {

*if* (vo[i] == a)

        {

*return* 1;

        }

    }

*return* 0;

}

void main()

{

    char in[1000][100];

    char out[1000][100];

    char com = '0';

    int d = 1, t, temp = 0;

    int ot = 0;

    char T = 'T';

    char space = ' ';

    char alfa[] = "abcdefghijklmnopqrstuvwxyz";

    int loop = 1;

*for* (int i = 0; i < t; i++)

    {

        gets(in[d]);

        t = in[d][0] == com ? i : i + 5;

        d++;

    }

*for* (int i = 0; i < d - 1; i++)

    {

*for* (int j = 0; j < strlen(in[i]); j++)

        {

            in[i][j] = tolower1(in[i][j]);

        }

    }

*for* (int i = 0; i < d - 1; i++)

    {

*for* (int j = 0; j < strlen(in[i]); j++)

        {

*if* (j == 0)

            {

                strncat(out[i], &T, 1);

*if* (vovelcheck(in[i][j]) == 0)

                {

                    j += 1;

                }

                strncat(out[i], &in[i][j], 1);

*// j+= temp == 4?2:0;*

            }

*else* *if* (in[i][j] == ' ')

            {

                strncat(out[i], &space, 1);

                strncat(out[i], &T, 1);

*if* (vovelcheck(in[i][j + 1]) == 0)

                {

                    j += 2;

                }

*else*

                {

                    j++;

                }

                strncat(out[i], &in[i][j], 1);

*// j+= temp == 4?2:0;*

            }

*else*

            {

                strncat(out[i], &in[i][j + ot], 1);

            }

        }

    }

*for* (int i = 0; i < d; i++)

    {

         printf("%s", out[i]);

        printf("\n");

    }

}

**Output:-**

