**Assignment 3**

**Objective:**

Write a program to input Valid Alphabet and Valid String and then determine the Length of the string and print the reverse string.

**Code:**

using System;

usingSystem.Collections.Generic;

usingSystem.Linq;

usingSystem.Text;

usingSystem.Threading.Tasks;

namespace ToCS\_Assignment\_3

{

/\*Objective:

Write a program to input Valid Alphabet and Valid String and then

determine the Length of the string and also print the reverse string.\*/

classProgram

{

//For seprating elements of alphabet by ','

publicstaticstring[] ElementsOfAlphabet(string str, string[] array) {

array = str.Split(',');

return array;

}

//This counts the number of elements in Alphabet

publicstaticintNumberOfElementsIn(string str) {

inti,count = 1;

for (i = 0; i<str.Length; i++)

if (str[i] == ',')

count++;

return count;

}

staticvoid Main(string[] args)

{

int length=0,tem;

stringtemp,RevString="";

string[] RevStringArray=newstring[50];

Console.Write("Enter Valid Alphabet = { ");

string Alphabet = Console.ReadLine(); //Take Alphabet input

Console.Write("\nEnter Valid String : ");

string str = Console.ReadLine(); //Take String input

int size = NumberOfElementsIn(Alphabet);

string[] array = newstring[size]; //array of required size is initialized

array = ElementsOfAlphabet(Alphabet,array); //Now array contains elements of Alphabet

for(inti = 0; i<str.Length;) /This is the main loop

{

for(int j = 0; j < size; j++) //This loop finds the element of Alphabet

{ //in String

if (i>= str.Length)

break;

temp = array[j]; //temp contains the element of Alphabet

if (str[i] == temp[0])

{

RevStringArray[length] = temp; //Storing the tokens of string in RevStringArray

i = i + temp.Length; //i starts from 0 and will increment it self in //a way that it point to next tokenin string

length //This count the number of tokens in string

}

}

}

for(inti = length; i>=0; i--)

{

RevString = RevString + RevStringArray[i]; //we concatenate the token of string with

} //empty string in reverse order

Console.WriteLine("\n\nLength : " + length);

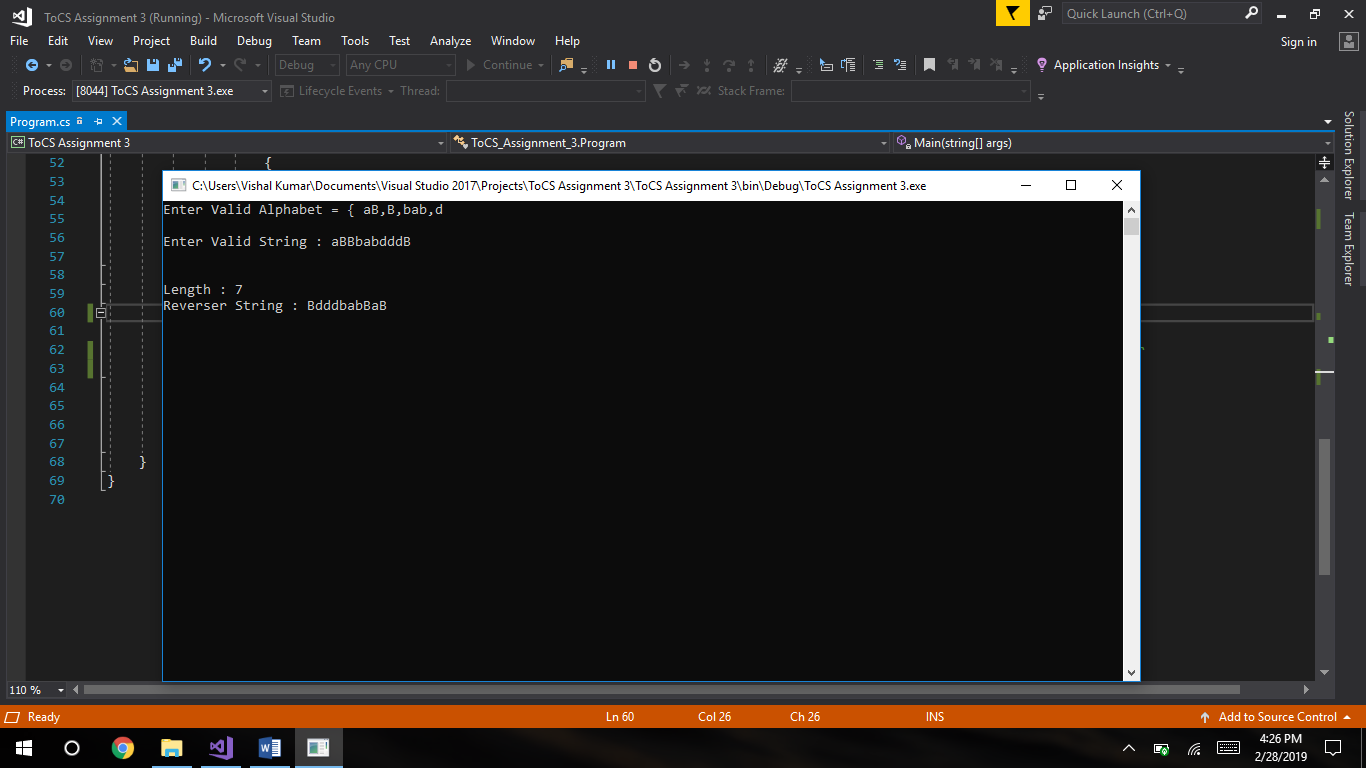
Console.WriteLine("Reverser String : "+ RevString);

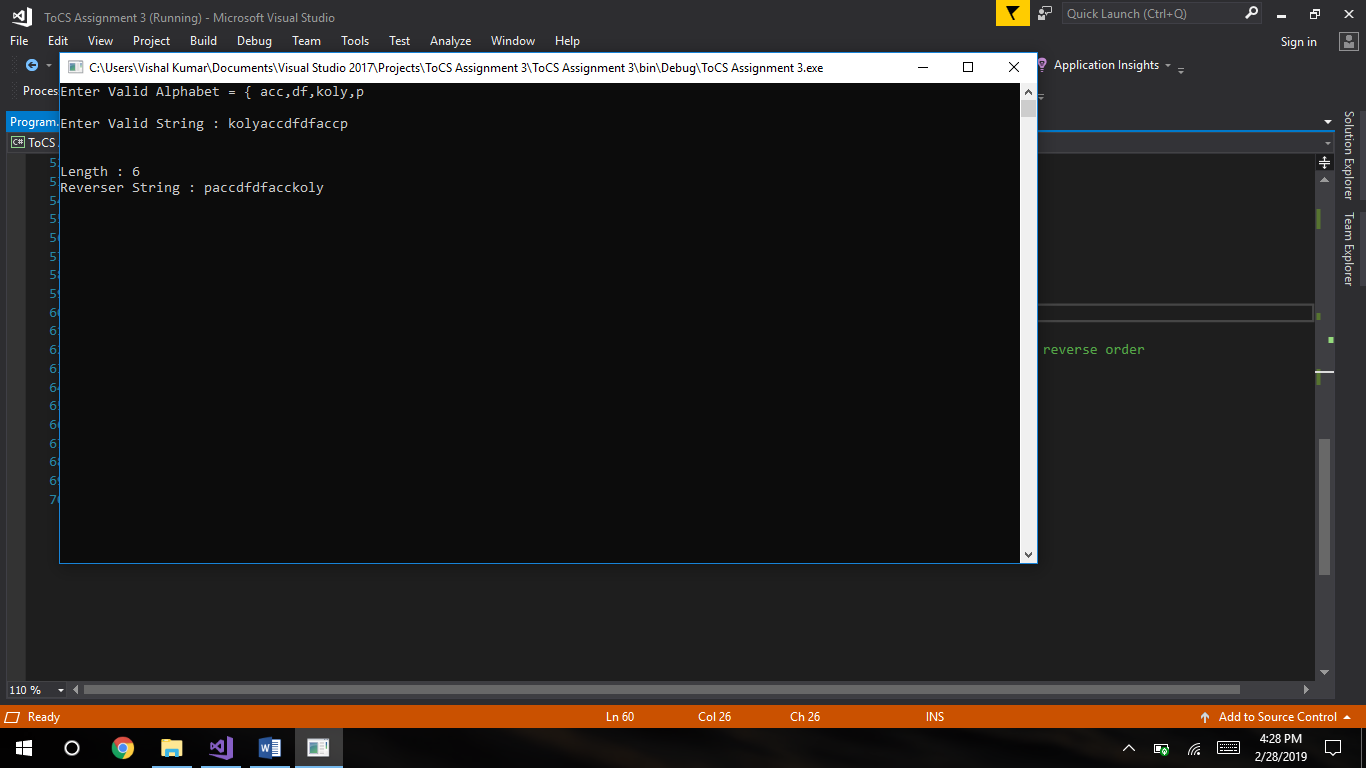
Console.ReadKey();

}

}

}



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