**LAB (8) TASK (1)**

**Code:**

using System;

class Program

{

static bool IsCVariable(string input)

{

if (string.IsNullOrEmpty(input))

return false;

int state = 0;

foreach (char ch in input)

{

switch (state)

{

case 0:

if (char.IsLetter(ch) || ch == '\_')

state = 1;

else

return false;

break;

case 1:

if (char.IsLetterOrDigit(ch) || ch == '\_')

state = 1;

else

return false;

break;

}

}

return state == 1;

}

static void Main()

{

Console.WriteLine("Enter a string to check if it's a valid C variable name:");

string input = Console.ReadLine();

if (IsCVariable(input))

Console.WriteLine("✔ Valid C variable name.");

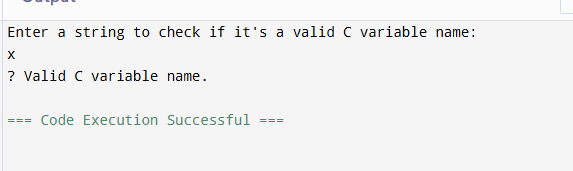
else

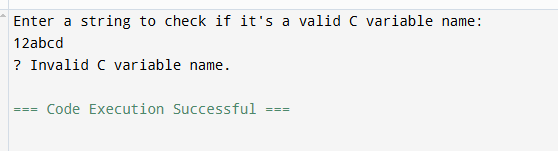
Console.WriteLine("❌ Invalid C variable name.");

}

}

**Output:**

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